
KANSAS ARMY AMMUNITION PLANT

SUPPLEMENTAL PHOTOGRAPHIC DOCUMENTATION OF ARCHETYPAL BUILDINGS, STRUCTURES, AND EQUIPMENT FOR U.S. ARMY MATERIEL COMMAND NATIONAL HISTORIC CONTEXT FOR WORLD WAR II ORDNANCE FACILITIES

by
K. Diane Kimbrell
Kathleen E. Hiatt

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U.S. ARMY MATERIEL COMMAND HISTORIC CONTEXT SERIES
REPORT OF INVESTIGATIONS
NUMBER 5B



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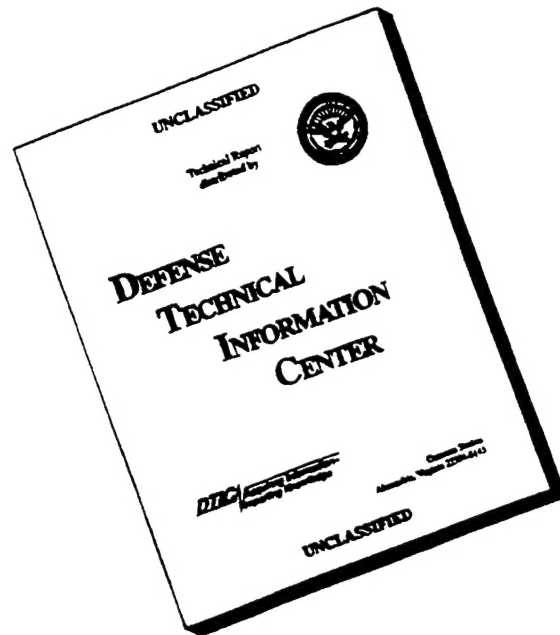


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REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188		
1a. REPORT SECURITY CLASSIFICATION Unclassified		1b. RESTRICTIVE MARKINGS			
2a. SECURITY CLASSIFICATION AUTHORITY		3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release			
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE					
4. PERFORMING ORGANIZATION REPORT NUMBERS U.S. Army Materiel Command Historic Context Series, Report of Investigations Number 5B		5. MONITORING ORGANIZATION REPORT NUMBER(S)			
6a. NAME OF PERFORMING ORGANIZATION Geo-Marine, Inc.	6b. OFFICE SYMBOL (if applicable)	7a. NAME OF MONITORING ORGANIZATION US Army Corps of Engineers, Fort Worth District			
6c. ADDRESS (City, State, and Zip Code) 550 E. 15th Street / Plano, Texas / 75074		7b. ADDRESS (City, State, and Zip Code) PO Box 17300 Fort Worth, Texas 76102-0300			
8a. NAME OF FUNDING/SPONSORING ORGANIZATION US Army Corps of Engineers, Fort Worth District	8b. OFFICE SYMBOL (if applicable) CESWF-PL-RC	9. PROCUREMENT INSTRUMENT ID NUMBER DACA63-93-D-0014 Delivery Order No. 0014			
8c. ADDRESS (City, State, and Zip Code) PO Box 17300 Fort Worth, Texas 76102-0300		10. SOURCE OF FUNDING NUMBERS			
		PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO.	WORK UNIT ACCESSION NO.
11. TITLE (Include Security Classification) Kansas Army Ammunition Plant Supplemental Photographic Documentation of Archetypal Buildings, Structures, and Equipment for Army Materiel Command National Historic Context for World War II Ordnance Facilities					
12a. PERSONAL AUTHOR(S) K. Diane Kimbrell and Kathleen E. Hiatt					
13a. TYPE OF REPORT Final Report	13b. TIME COVERED FROM Sept. 1993 to Mar. 1995	14. DATE OF REPORT (Year, Month, Day) March 1995	15. PAGE COUNT 91 + Appendix		
16. SUPPLEMENTARY NOTATION					
17. COSATI CODES		18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)			
FIELD	GROUP				SUB-GROUP
05	06				
19. ABSTRACT (Continue on reverse if necessary and identify by block number) This report presents a photographic record of the archetypal buildings, structures, and equipment of the World War II Ordnance Department's government-owned, contractor-operated (GOCO) industrial facility, the Kansas Army Ammunition Plant, at Parsons, Kansas. This photographic documentation was completed under partial fulfillment of an Army Materiel Command (AMC) Legacy Resource Program demonstration project for assistance to small installations and in fulfillment of the 1993 Programmatic Agreement among the AMC, the Advisory Council on Historic Preservation, and Multiple Historic State Historic Preservation Officers concerning the program to discontinue maintenance, or dispose, of particular GOCO properties. The objective of the project was to photographically record World War II-vintage equipment and buildings, some of which housed different stages of the ammunition manufacturing process and were of the same architectural design. Modern buildings and equipment are not included in this document. Efforts were made to arrange the photographs in the order of ammunition manufacture and facility processes; however, this presentation should not be perceived as a complete chronological sequence for ammunition manufacturing during World War II. The buildings photographed in this document are classified as under either "stand-by" or "layaway" status. The active buildings depicted in this volume are of an insensitive and/or "safe" nature and include Administration and Shop buildings.					
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT <input type="checkbox"/> UNCLASSIFIED/UNLIMITED <input checked="" type="checkbox"/> SAME AS RPT. <input type="checkbox"/> DTIC USERS		21. ABSTRACT SECURITY CLASSIFICATION Unclassified			
22a. NAME OF RESPONSIBLE INDIVIDUAL Joseph Murphey		22b. TELEPHONE (Include Area Code) 817-334-2625	22c. OFFICE SYMBOL CESWF-PL-RC		

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Prepared for

U.S. ARMY CORPS OF ENGINEERS
FORT WORTH DISTRICT

U.S. ARMY MATERIEL COMMAND HISTORIC CONTEXT SERIES
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550 East 15th Street
Plano, Texas 75074

March 1995

CONTRACT DATA

The preparation of this document was accomplished under Contract No. DACA63-93-D-0014, Delivery Order No. 14 (GMI project no. 1114-014), with the U.S. Army Corps of Engineers, Fort Worth District, Fort Worth, Texas 76102.

TABLE OF CONTENTS

I.	INTRODUCTION	1
II.	PHOTOGRAPHIC RECORDATION LOGISTICS AND METHODOLOGY	3
III.	HISTORICAL OVERVIEW	5
IV.	PHOTOGRAPHIC DOCUMENTATION	9
	Administrative Facilities	11
	Manufacturing and Chemical Process Buildings	15
	Support Facilities for Manufacturing	51
	Shipping and Storage Facilities	61
	Support Facilities for Employees	73
	Utilities and Infrastructure	77
	REFERENCES CITED	91
	APPENDIX A: PHOTOGRAPHIC DATA SHEETS	93
	ATTACHMENT 1: OVERSIZED MAP	Back Cover

LIST OF FIGURES

SECTION III. HISTORICAL OVERVIEW

1. Regional Location of Kansas Army Ammunition Plant 6

SECTION IV. PHOTOGRAPHIC DOCUMENTATION

1. Building 53: General Administration Building 13
2. Building 202: General Purpose Administration Building 13
3. Building 207: General Purpose Administration Building 14
4. Building 322: General Purpose Administration for the 300 Line 14
5. Building 503: Screen House 17
6. Building 505: Tetryl Pelleting Building 17
7. Building 509: Oil Heating Building or Boiler House 18
8. Building 509: Oil heated boiler 19
9. Building 509: Second view of the oil heated boiler 20
10. Building 509: Oil feed pump (front) and oil service pump (rear) 21
11. Building 513: Metal Parts Loading Building 22
12. Building 515: Air Compressor Building 22
13. Building 540: Vacuum Building 23
14. Buildings 703 and 704: Heater House and Azide Building 23
15. Building 706: Mercury Preparation House 24
16. Building 715: Loading Building 24
17. Building 722: Detonator Rumbling Building 25
18. Building 724: Oil Boiler House 25
19. Building 732: Primer Mix Bowling Building 26
20. Buildings 740 and 713: Azide Napkin Preparation Building and Heater House 26
21. Building 744: Compressor House 27
22. Building 804: Screen inside the Black Powder Screening House 28
23. Building 807: Fan House 29
24. Building 809: Primer Loading Building 29
25. Building 809: 1942 motor-driven volumetric loading machine 30
26. Building 812: Primer Preparation Building 31
27. Building 812: Consolidated Packing machine 32
28. Building 812: Second view of the Consolidated Packing machine 33
29. Building 812: Lacquering machine 34
30. Building 812: Pennsylvania Pinhead machine 35
31. Building 812: Air Conditioner Compressor 35
32. Building 816: Black Powder Pelleting Building 36
33. Building 818: Air Compressor Building 36

List of Figures
(con't)

34.	Building 818: Chicago Pneumatic air compressor	37
35.	Building 841: Interior view of the Primer Dry House	38
36.	Building 910: Propellant Charge Building	39
37.	Building 910: Second view of the Propellant Charge Building	39
38.	Building 1006: Metal Loading Building	40
39.	Building 1004: Oil and Paint Building	40
40.	Building 1010: Booster House	41
41.	Building 1017: Screening Building	41
42.	Building 1017: Dust Collector and Conveyor	42
43.	Building 1020: T.N.T. Screen House	43
44.	Building 1095: Vacuum House	43
45.	Buildings 1013 and 1012: Vacuum Pump Houses	44
46.	Buildings 1023 and 1022: Vacuum Pump Houses	44
47.	Buildings 1071 and 1096: Vacuum Houses	45
48.	Buildings 1072 and 1090: Vacuum Houses	45
49.	Building 1019: Cooling Building	46
50.	Building 1078: Wash House	46
51.	Building 1113: Cooling Building	47
52.	Building 1147: Cooling Building	47
53.	Building 1145: Drilling Building	48
54.	Building 1205: Coal Boiler House	48
55.	Building 306: Major Caliber Building	49
56.	Building 315: Assembly Building	49
57.	Building 324: Assembly Building	50
58.	Building 326: Major Caliber Building	50
59.	Building 57: Administration Quality Facility	53
60.	Building 58: Metrology and Chemical Laboratory	53
61.	Building 112: Laundry Building	54
62.	Building 202: Vehicle Maintenance Shop/Garage	54
63.	Building 203: General Purpose Administration/Maintenance Shop	55
64.	Building 203: Maintenance Shop portion	55
65.	Building 316: Electrical Shop and Inert Storage Building	56
66.	Building 210: Oil Pump House	56
67.	Building 328: Compressed Air Building	57
68.	Between Buildings 504 and 507: Fire break in a covered walkway/transport way	57
69.	Building 951: X-Ray Building	58
70.	Building 60: Railroad Scale House	58
71.	Building 60: Rutland Vermont Howe Scale	59
72.	Building 246: Railroad Maintenance Building	59
73.	Building 80: General Storehouse	63
74.	Building 252: Lumber and Pipe Shed	63
75.	Building 1047: Storage Shed	64
76.	Building 1003: General Purpose Warehouse - Process Storage	64
77.	Building 221: General Purpose Warehouse	65
78.	Building 211: General Purpose Warehouse	65
79.	Building 1412: Inert Storage House	66

List of Figures
(con't)

80.	Building 311: Ready Magazine	66
81.	Buildings 502 and 525: Service Magazine and barricade	67
82.	Building 1826: Finished Ammunition Magazine	67
83.	Building 1620: Storage Igloo	68
84.	Building 1005: Process Storage Building	68
85.	Building 1206: Neutral Liquor Storage	69
86.	Building 507: Assembly, Pack, and Ship Building	69
87.	Building 723: Final Inspection, Packing, and Shipping Building	70
88.	Building 1011: Drill Booster and Shipping Building	70
89.	Buildings 932, 933, and 934: Loading docks with conveyor	71
90.	Building 934: Rail loading dock with semi-truck dock	71
91.	Building 208: Change House and Engineering Building	75
92.	Building 325: Change House	75
93.	Building 1202: Change House	76
94.	Building 15: Sentry Station at Gate #3	79
95.	Building 52: Fire House	79
96.	Building 255: Refuse Collection Building	80
97.	Building 209: Boiler House or Coal Generated Heating Building	81
98.	Building 209: Boiler in the Coal Generated Heating Building	82
99.	Building 210: Pump Station Building	83
100.	Building 2105A: Stone Quarry Pump House	83
101.	Building 2106A: Pump Station	84
102.	Building 2106: Water Treatment Plant	84
103.	Building 2106: Raw water pump and motor	85
104.	Building 2106: Settling Basin	85
105.	Building 2106: Sand filter	86
106.	Building Number no longer known: Water Pump House	86
107.	Building 253: Sewage Station where this covered pit serves as a Pump House	87
108.	Buildings 2211 and 2203: Digester Tank and Sewage Treatment Plant	87
109.	Building 2203: Sewage Sprinkler Filters	88
110.	Building 2203: West side of the Sewage Settling Basins	88
111.	Building 2203: East side of the Sewage Drying Beds	89

I.

INTRODUCTION

This report presents a photographic recordation of the archetypal buildings, structures, and equipment of the Ordnance Department's World War II government-owned, contractor-operated (GOCO) industrial facility, the Kansas Army Ammunition Plant, Parsons, Kansas. Geo-Marine, Inc. was contracted by the U.S. Army Corps of Engineers, Fort Worth District to undertake this project in September of 1993. Duane E. Peter, Director of the Cultural Resources Division of Geo-Marine, Inc., acted as Principal Investigator for the project. Kathleen Hiatt completed the photographic fieldwork for the project.

This photographic documentation was completed under Delivery Order No. 14, Contract No. DACA63-93-D-0014, Task C, in partial fulfillment of a Army Materiel Command (AMC) Legacy Resource Program demonstration project for assistance to small installations. This documentation also represents partial fulfillment of the requirements of the 1993 Programmatic Agreement among the AMC, the Advisory Council on Historic Preservation, and the Multiple Historic State Historic Preservation Officers concerning the program to discontinue maintenance of, or dispose of, particular government-owned properties. This work was conducted in compliance with the National Environmental Policy Act of 1969 (PL 90-190); the National Historic Preservation Act of 1966 (PL 96-515), as amended; the Archaeological and Historic Preservation Act of 1974 (PL 93-291), as amended; and Executive Order No. 11593, "Protection and Enhancement of the Cultural Environment."

In completion of this task, a map showing building numbers; a photographic log; and the photographs of various buildings, structures, and equipment; as well as a brief history of the installation have been included for the Kansas Army Ammunition Plant.

II.

PHOTOGRAPHIC RECORDATION LOGISTICS AND METHODOLOGY

The objective of Task C was to photographically record World War II vintage buildings and equipment. Numerous buildings that housed different stages of the ammunition manufacturing process were of the same architectural design. Accordingly, the order of photographs that follows is based on differences in architectural design, rather than on the step-by-step process of ammunition manufacturing. Modern buildings and necessary equipment in ammunition processing are absent from this photographic account due to their vintage (i.e., replacement equipment, though similar in function and/or design, was not photographed). Ammunition manufacturing is divided into lines according to the type of ammunition being manufactured and by process stages. Additionally, there may be more than one line for the same ammunition type at the same stage. Accordingly, the architectural design of these buildings in different lines is similar, as is their equipment. Photographs of specific building types were not taken from a single line, rather the photographs were taken from any number of lines as directed by the sun angle and physical restrictions. In short, though efforts were made to arrange the photographs in order of ammunition and facility processes, the presentation should not be perceived as a complete and chronological order of ammunition manufacturing.

Photographs of ammunition buildings and equipment in this account are classified under either "stand-by" or "lay-away" status. Depicted active buildings are of an insensitive and/or "safe" nature. Such buildings include administration and shop buildings.

Photographic angles were largely dependent upon the angle of the sun and spatial restrictions. Time constraints and work schedules of the escorts did not allow for return visits to buildings that may have been better depicted with a different sun angle. In many cases, preferred angles for photography were impossible due to overhead pipelines, power line poles, and other structures.

Motors, tanks, and pumps are necessary in numerous plant processes. Due to the common function and design of such equipment, a single photograph was taken to represent any number of similar pieces of equipment. A representative unit was selected for its physical integrity and photographic accessibility; however, due to modernization and alterations of plant processes, all original equipment has reportedly been shipped out of the Kansas Army Ammunition Plant. Thus, few pieces of World War II equipment are contained within this account.

III.

HISTORICAL OVERVIEW

The Kansas Army Ammunition Plant is located on a reservation of land that encompasses 17,200 acres, approximately a mile southeast of Parsons, Kansas (Figure 1). The process of site selection was based on several criteria set up by the Ordnance Department. For instance, the site could not have been a coastal area (and in fact, it had to be at least 200 miles away from any U.S. border), for obvious reasons of national defense. The location also could not have been located near a large center of population for safety requirements; however, it had to be located in an area that could recruit a sufficient work force for construction and operation. Among other criteria considered were that the site had to have access to electricity, water, railroads, and highways to ensure a degree of self-sufficiency. Finally, a large tract of land had to be purchased due to the safety regulations that required adequate spacing between production lines and storage facilities (Thomson and Mayo 1991:108-109).

As the site for the Kansas Army Ammunition Plant met these criteria, a plan for the plant was designed. The plant was originally designed to load shells, bombs, and components (i.e., detonators, artillery primers, fuzes, and boosters), and for the processing of ammonium nitrate. The contract for constructing, equipping, and operating the plant was awarded to the J-M Service Corporation, a subsidiary of Johns-Manville Corporation of New York, N.Y. The construction of lines was finished and operating at different times. The first line to begin production was the bomb loading line which began operation on April 14, 1942. The ammonia crystallization plant opened on May 3, 1942, the booster line began operations on May 5th, followed by the detonator line and primer line on June 19th and June 30th, respectively. Finally, the fuze line was in operation by the 3rd of July 1942 (U.S. Government n.d.:160). It should be noted that certain factors contributed to the time period of Kansas Army Ammunition Plant's construction. First, heavy rains and flood waters in the fall of 1941 and again in June of 1942 slowed construction dramatically. In addition, a high turn-over rate of employees slowed the process. It should also be noted that the latest advances in technology during World War II were not employed at Kansas Army Ammunition Plant. Reportedly, private industry had new machinery and improved plant designs that should have been used at this government-owned, contractor-operated (GOCO) facility.

The industrial production facilities at Kansas Army Ammunition Plant consist of nine production lines, including a fuze loading line, a booster line, a detonator loading line, a primer loading line, a 105 millimeter shell loading line, a melt loading line, a demolition bomb loading line, an ammonium nitrate plant, and a lead azide plant (which was the only line not constructed during the World War II period). During World War II, these production facilities were operated under a contract to the Johns-Manville

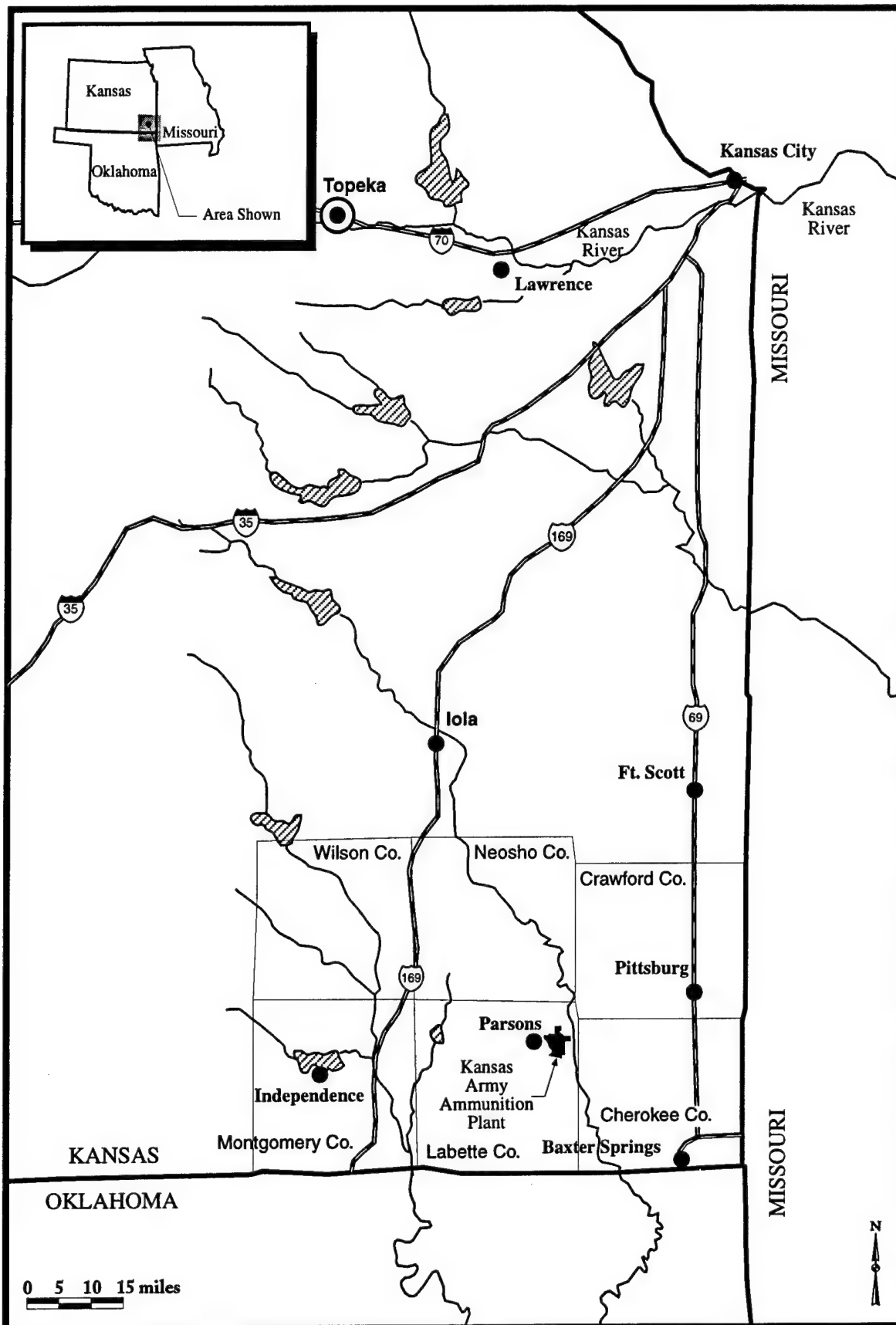


Figure 1. Regional location of Kansas Army Ammunition Plant.

Corporation and employed over 7,000 people. The plant was run by this company until it went on stand-by status in August of 1945. From 1945 to 1950 the plant remained on stand-by status and the government maintained the plant without a contractor. During the period before the Korean War, Kansas Army Ammunition Plant operated primarily as a storage facility and to issue ammunition (Burns and Muller 1984:21-25).

At the onset of the Korean War, the plant was reactivated by the Ordnance Department and renovated by the Corps of Engineers in the early 1950s. The plant was at full production status until 1957 when it was placed on stand-by again. Once again, the plant was reactivated due to the tensions in southeast Asia and began full capacity operations in 1967. For four years the plant ran at full capacity, but in 1970 various production lines began to be shut down (Burns and Muller 1984:22).

IV.

PHOTOGRAPHIC DOCUMENTATION

ADMINISTRATIVE FACILITIES



Figure 1. Building 53: General Administration Building.

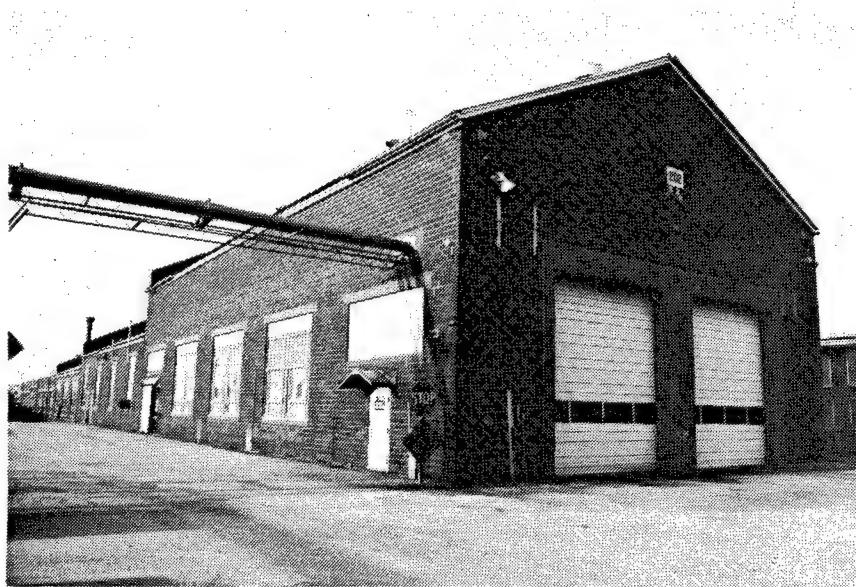


Figure 2. Building 202: General Purpose Administration Building.



Figure 3. Building 207: General Purpose Administration Building.

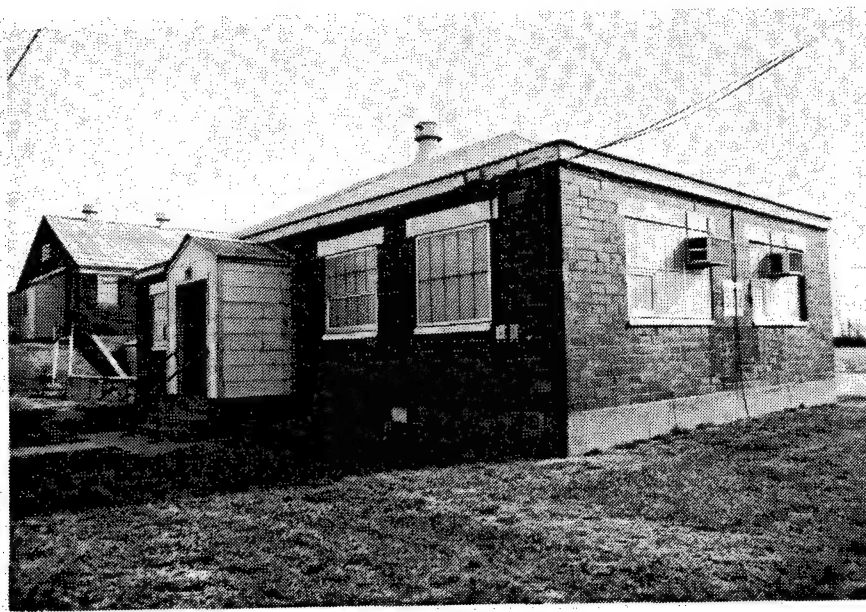


Figure 4. Building 322: General Purpose Administration for the 300 Line.

MANUFACTURING AND CHEMICAL PROCESS BUILDINGS



Figure 5. Building 503: Screen House of the Metal Parts Loading Building series.

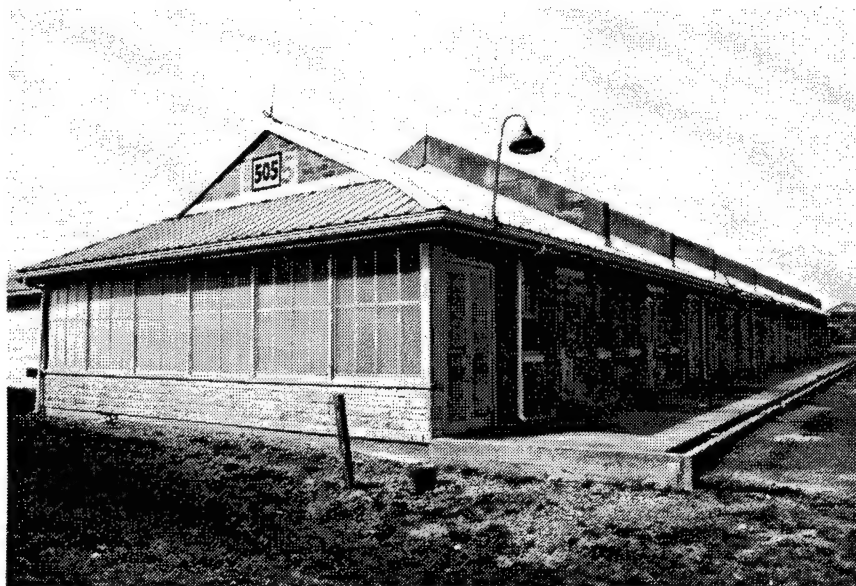


Figure 6. Building 505: Teteryl Pelleting Building.



Figure 7. Building 509: Oil Heating Building or Boiler House.

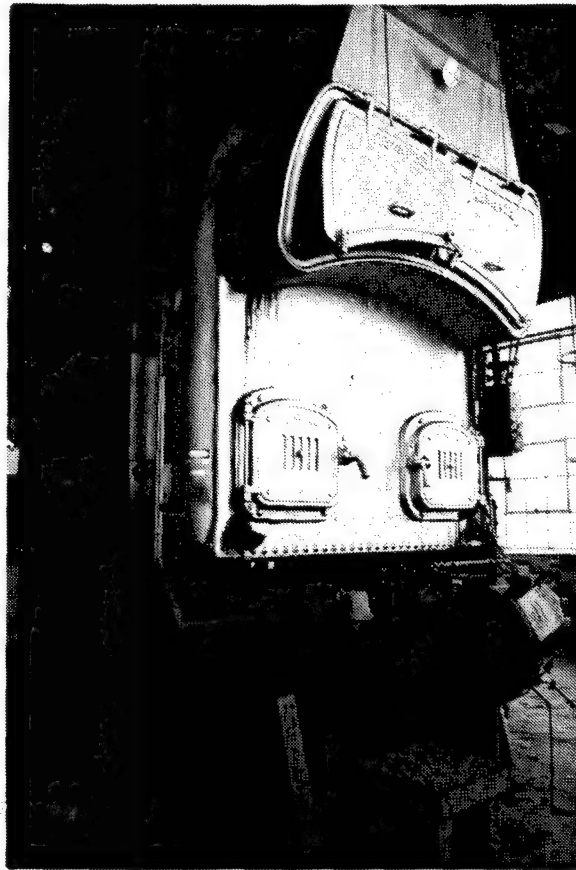


Figure 8. Building 509: An oil heated boiler in this building.

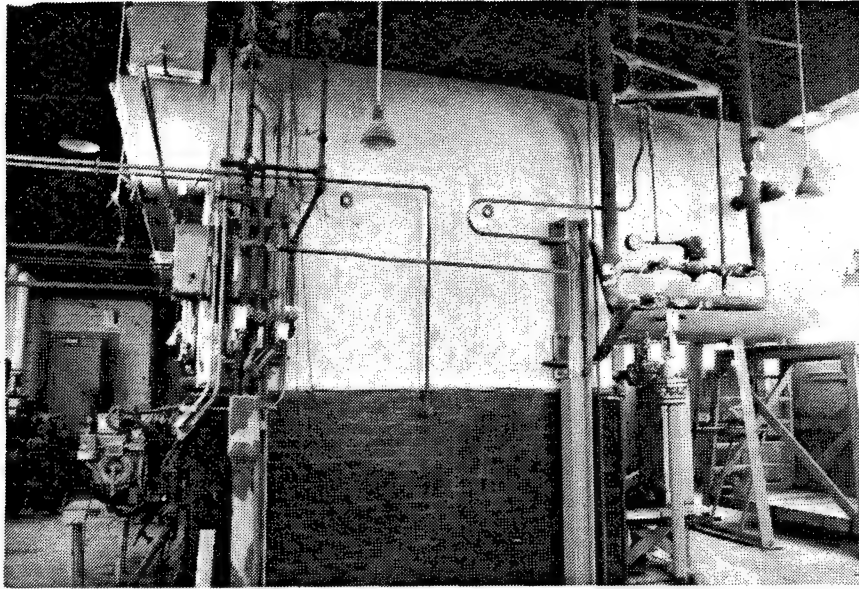


Figure 9. Building 509: Second view of the oil heated boiler.

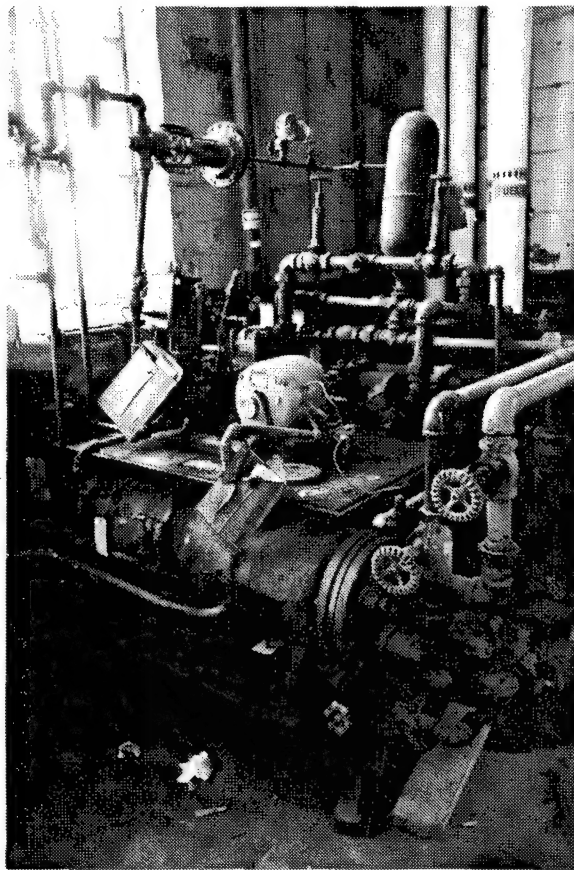


Figure 10. Building 509: Oil feed pump with General Electric motor (front) and oil service pump (rear) in this building.



Figure 11. Building 513: Metal Parts Loading Building where boosters and/or other charges were assembled, packed, and shipped out.

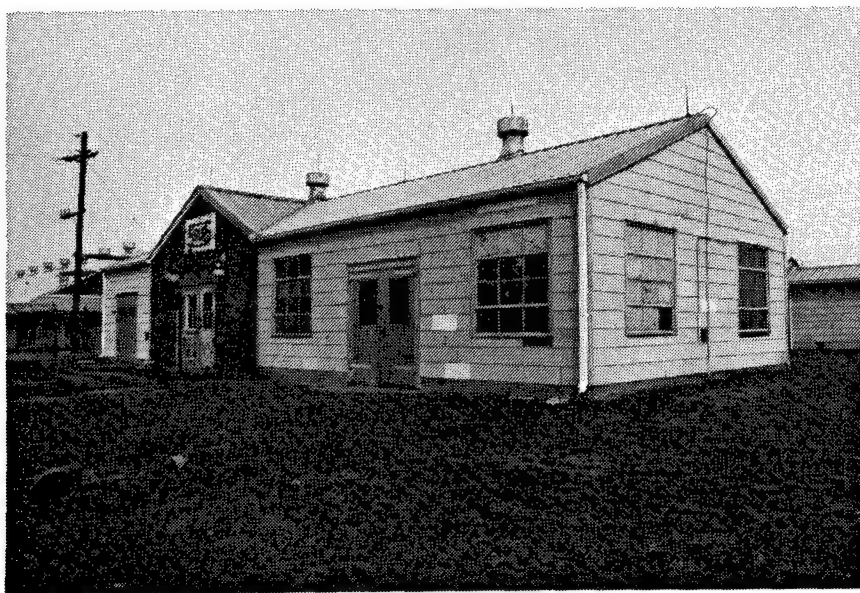


Figure 12. Building 515: Air Compressor Building.

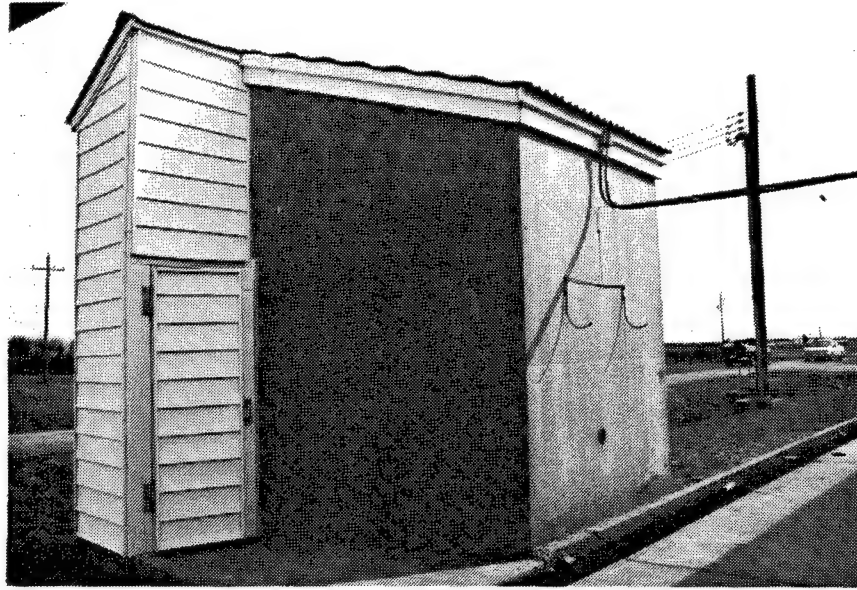


Figure 13. Building 540: This Metal Parts Loading Building served as a Vacuum Building.



Figure 14. Building 703 (left) and Building 704 (right): A Heater House and an Azide Building, respectively.



Figure 15. Building 706: Mercury Preparation House.



Figure 16. Building 715: Loading Building.



Figure 17. Building 722: Detonator Rumbling Building which has recently served as a Detonator Lacquering (painting) Building.



Figure 18. Building 724: Oil Boiler House.

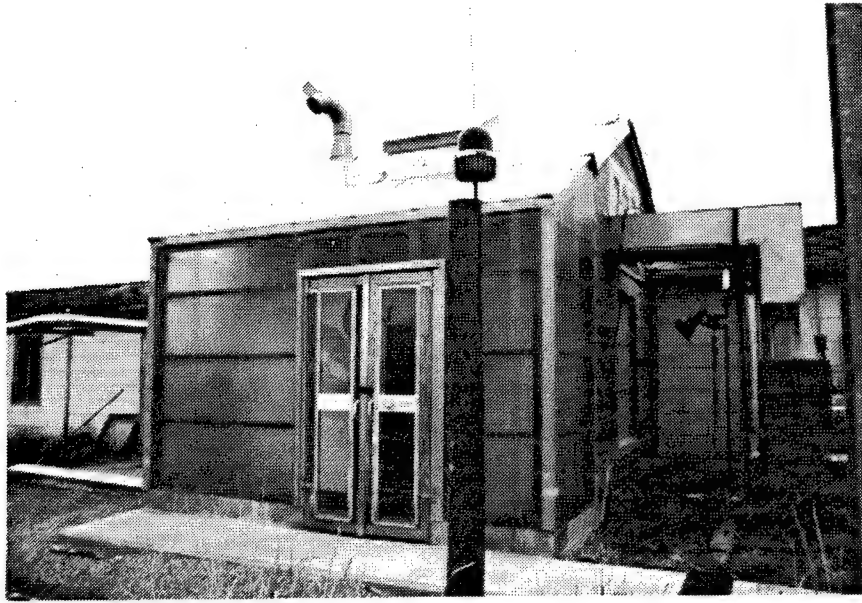


Figure 19. Building 732: A former Rest House remodeled to serve as a Primer Mix Bowling Building.



Figure 20. Building 740 (left) and Building 713 (right): Azide Napkin Preparation Building and its associated Heater House, respectively.



Figure 21. Building 744: Compressor House.



Figure 22. Building 804: Screen inside the Black Powder Screening House located on the 800 Line. It was used to screen and dry black powder.



Figure 23. Building 807: Fan House.



Figure 24. Building 809: Primer Loading Building.

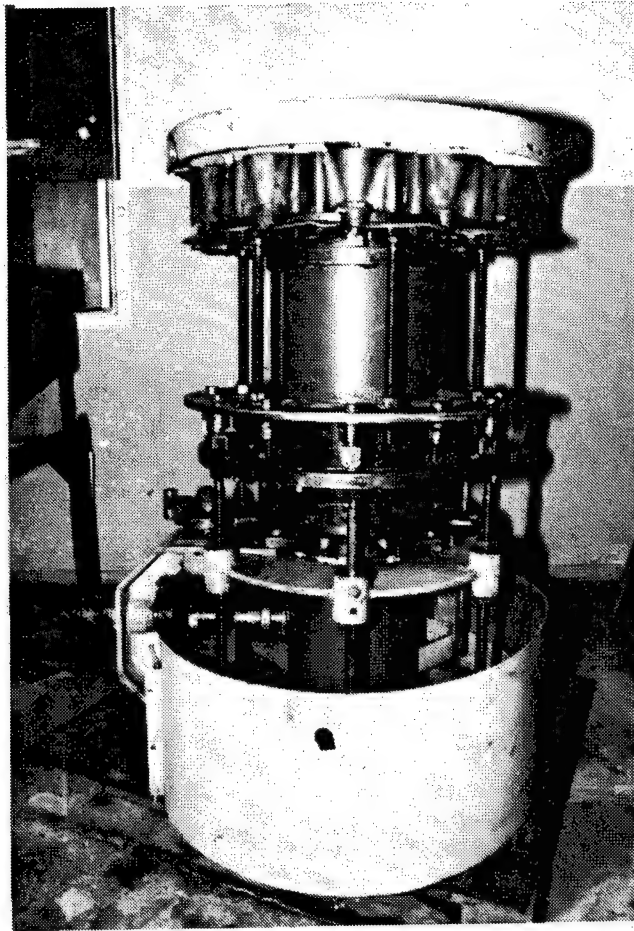


Figure 25. Building 809: A 1942 motor-driven volumetric loading machine with twelve stations, rotary table, and manual clutch located in this Primer Loading Building.

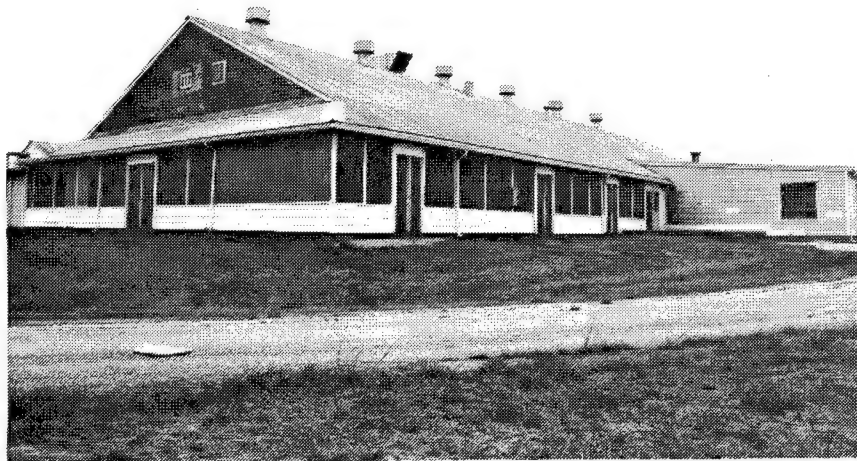


Figure 26. Building 812: Primer Preparation Building.

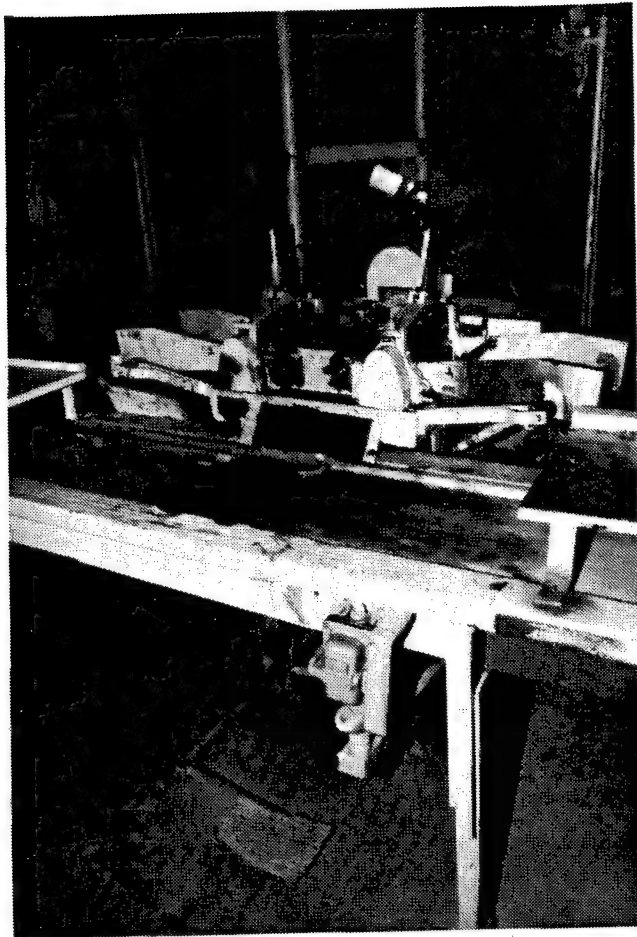


Figure 27. Building 812: Consolidated Packing machine manufactured in 1942.

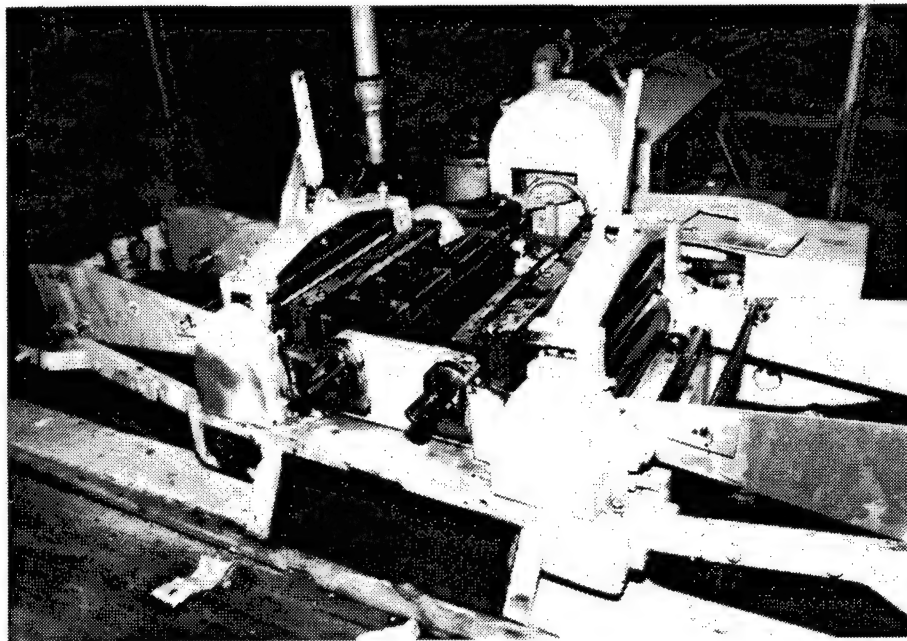


Figure 28. Building 812: Second view of the Consolidated Packing machine.

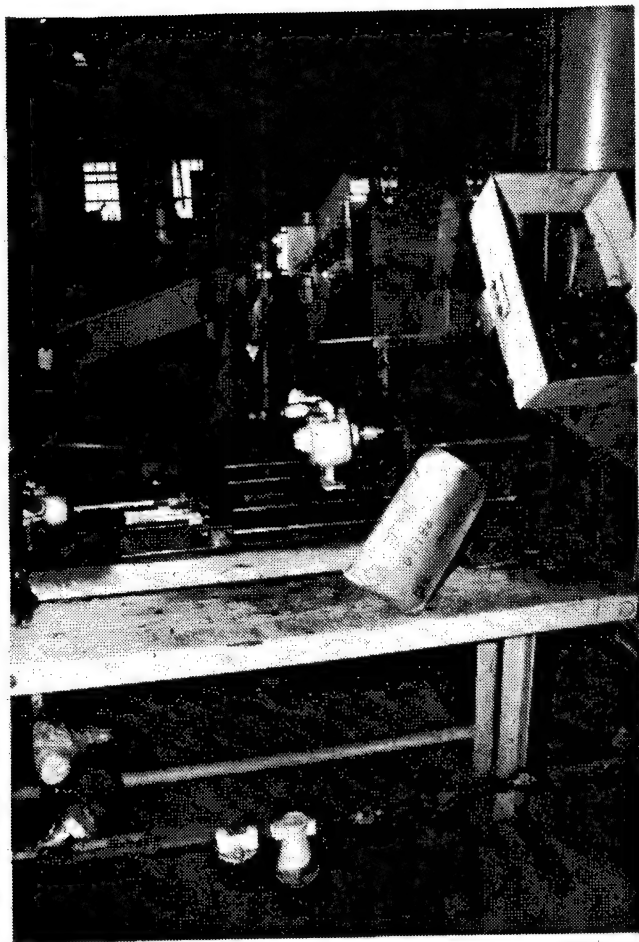


Figure 29. Building 812: Lacquering machine.

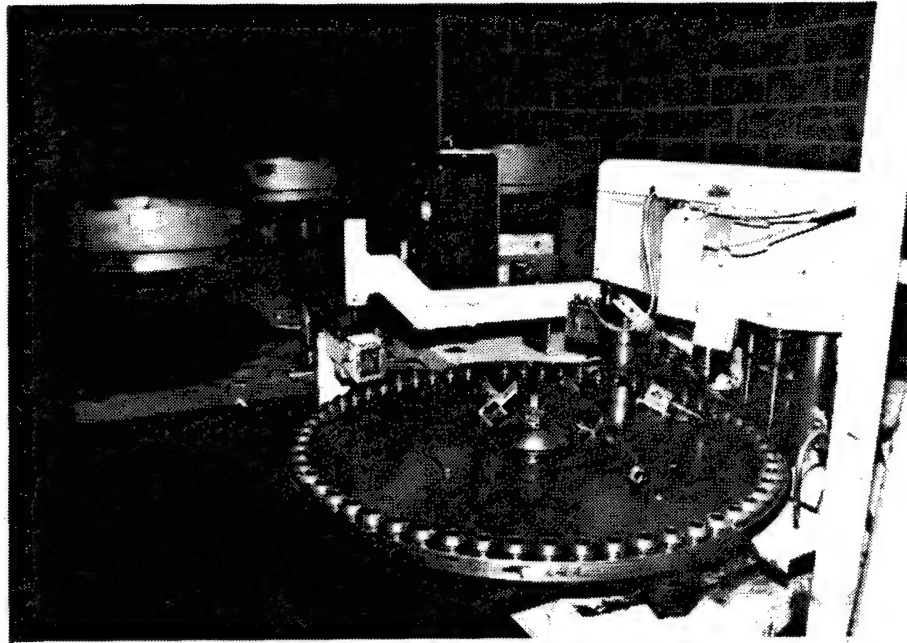


Figure 30. Building 812: Pennsylvania Pinhead machine.

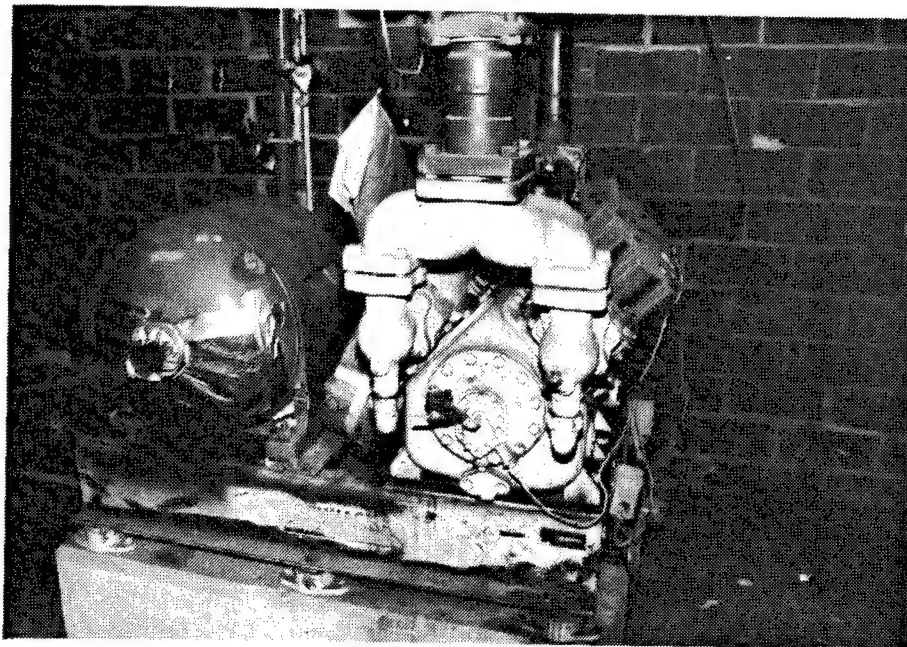


Figure 31. Building 812: Air Conditioner Compressor.



Figure 32. Building 816: Black Powder Pelleting Building.

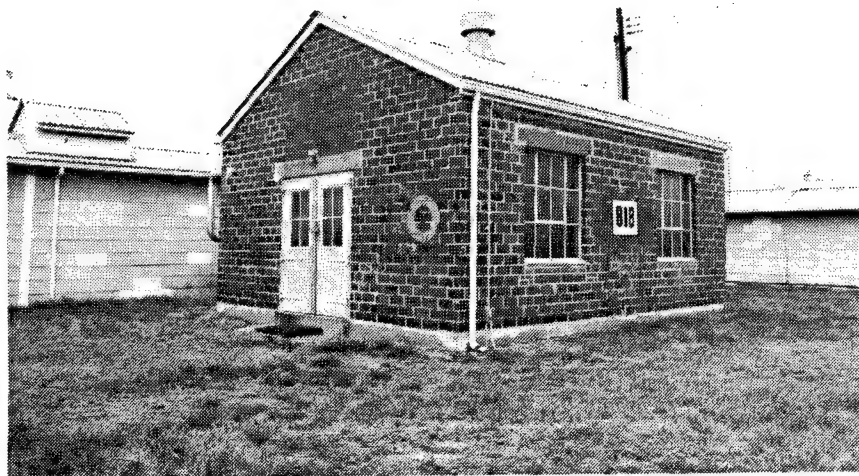


Figure 33. Building 818: Air Compressor Building.

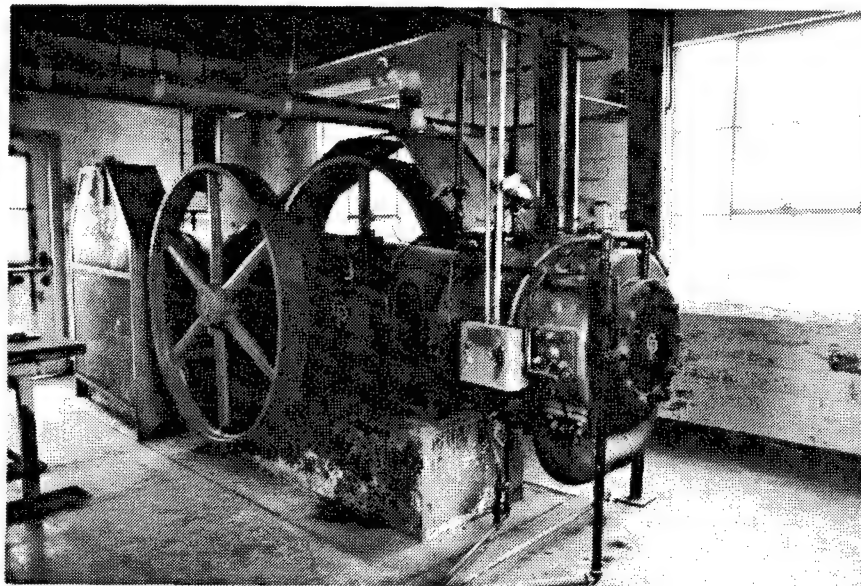


Figure 34. Building 818: Chicago Pneumatic air compressor.

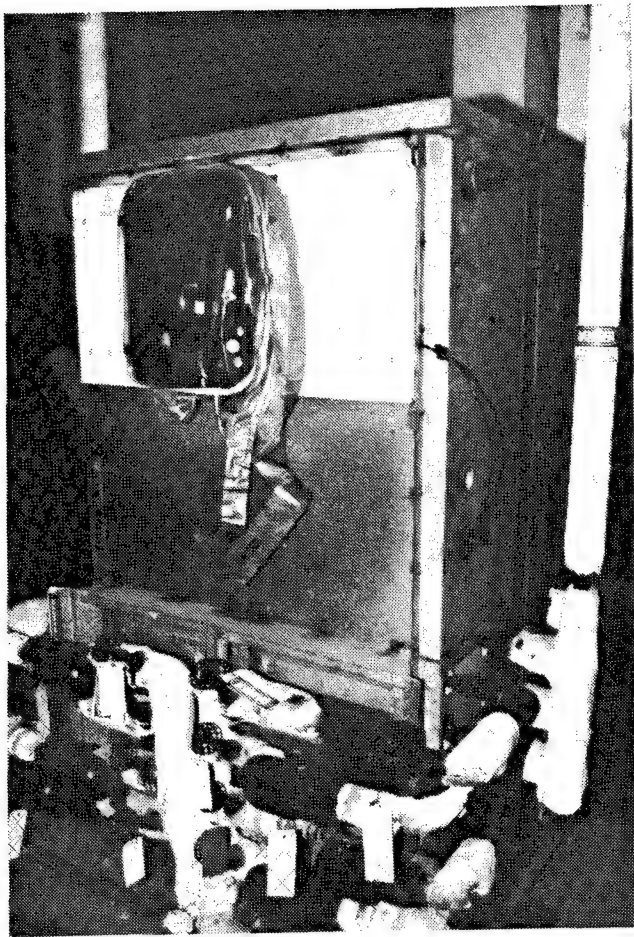


Figure 35. Building 841: Interior view of the Primer Dry House showing a Carrier drier oven for loaded primers manufactured in 1942.

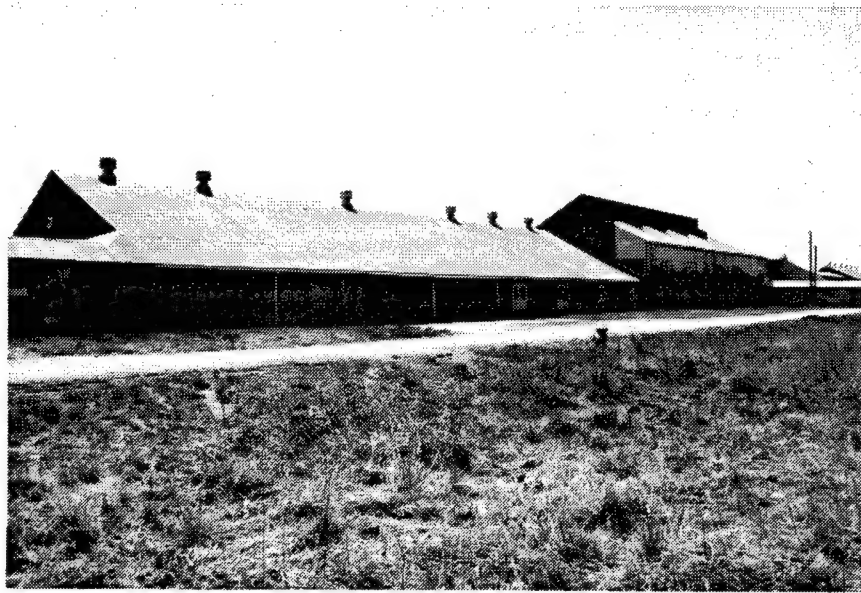


Figure 36. Building 910: Propellant Charge Building which has recently served as a Rework Building.

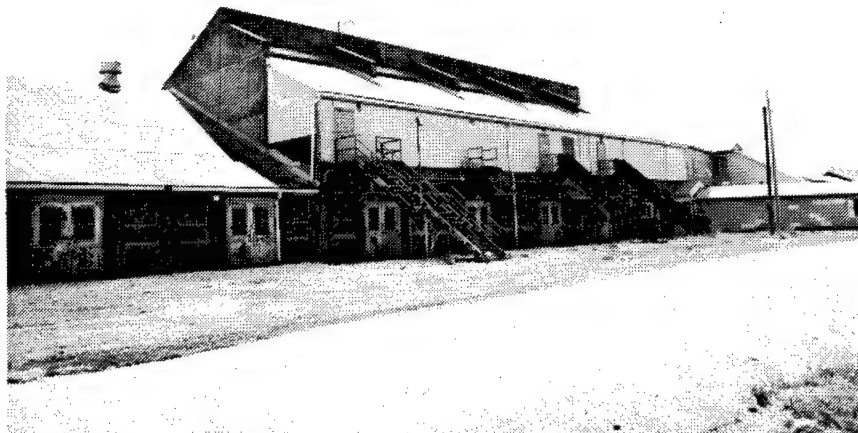


Figure 37. Building 910: Second view of the Propellant Charge Building (west end).

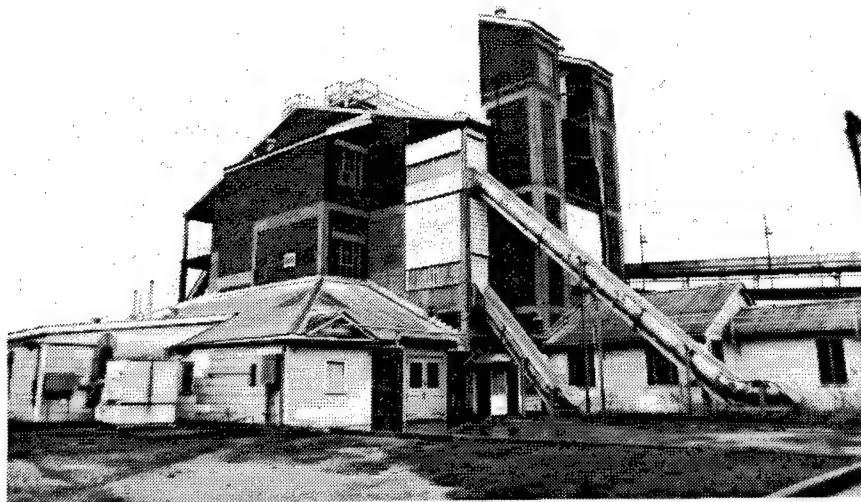


Figure 38. Building 1006: Metal Loading Building located on the 1000 Line where 105 millimeter ammunition was produced.



Figure 39. Building 1004: Oil and Paint Building.



Figure 40. Building 1010: Booster House.

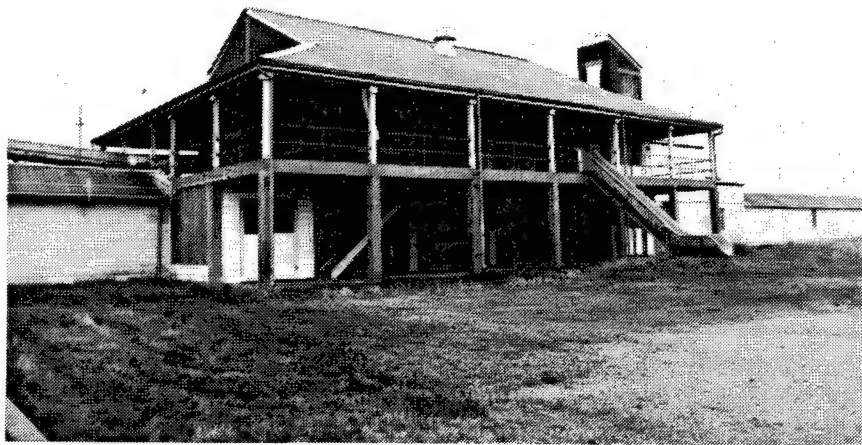


Figure 41. Building 1017: Screening Building.

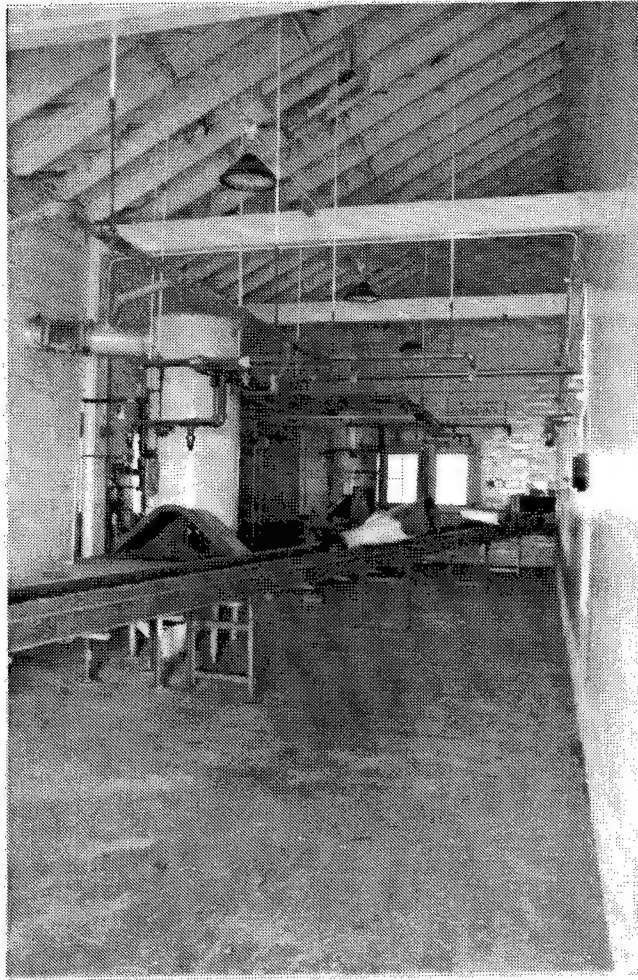


Figure 42. Building 1017: Dust Collector and Conveyor for propellant on the second level of this building.



Figure 43. Building 1020: T.N.T. Screen House.



Figure 44. Building 1095: Vacuum House responsible for the collection of loose powder within the line. There are numerous vacuum houses of varying design throughout the 1000 line.

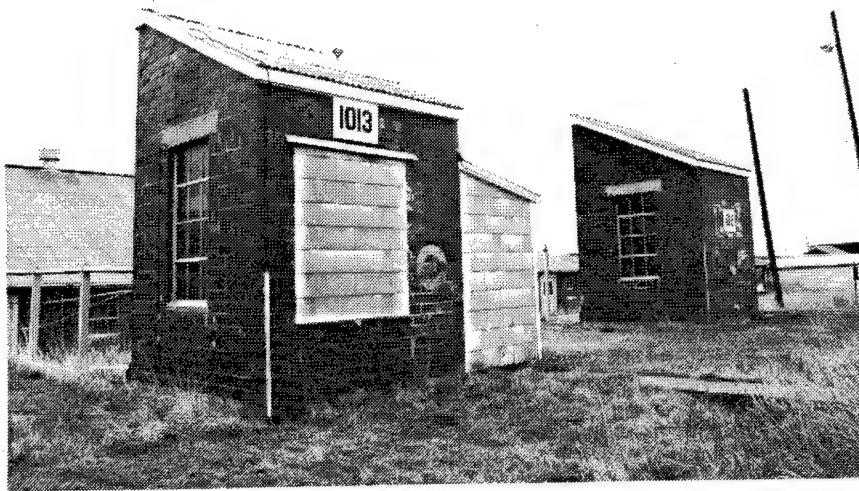


Figure 45. Building 1013 and Building 1012: Vacuum Pump Houses.



Figure 46. Building 1023 and Building 1022: Vacuum Pump Houses.



Figure 47. Building 1071 and Building 1096: Vacuum Houses.

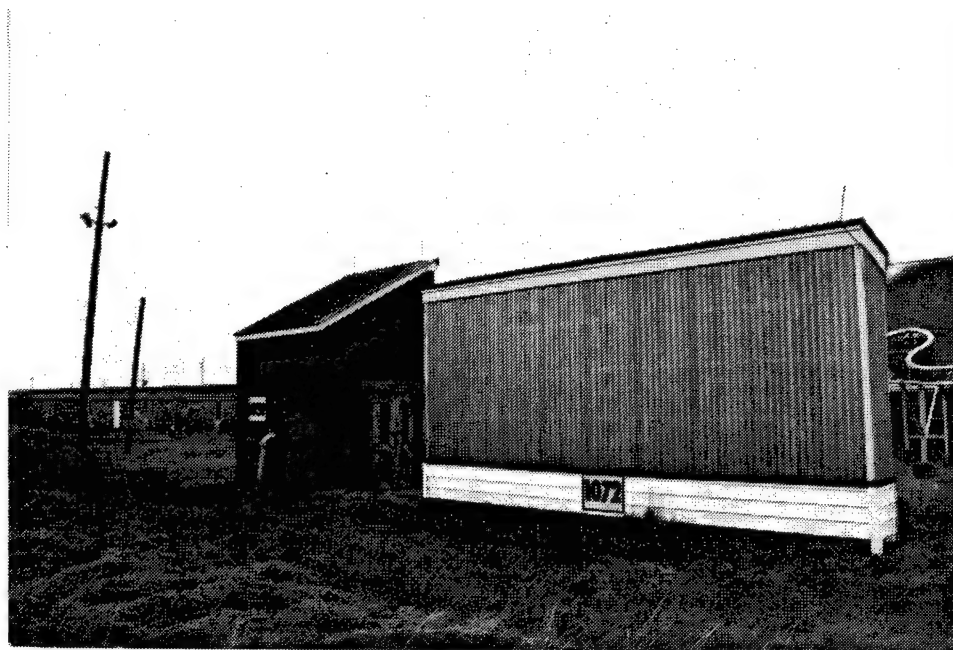


Figure 48. Building 1072 and Building 1090: Vacuum Houses.



Figure 49. Building 1019: Cooling Building.



Figure 50. Building 1078: Wash House of the Medium Caliber Loading Buildings.

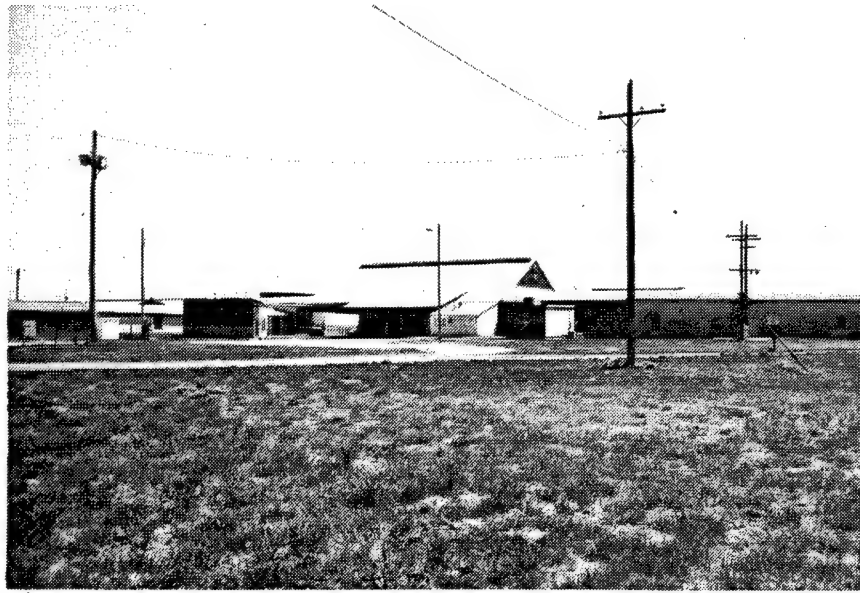


Figure 51. Building 1113: Cooling Building located on the 1100 Line that was responsible for the production of bombs during World War II.

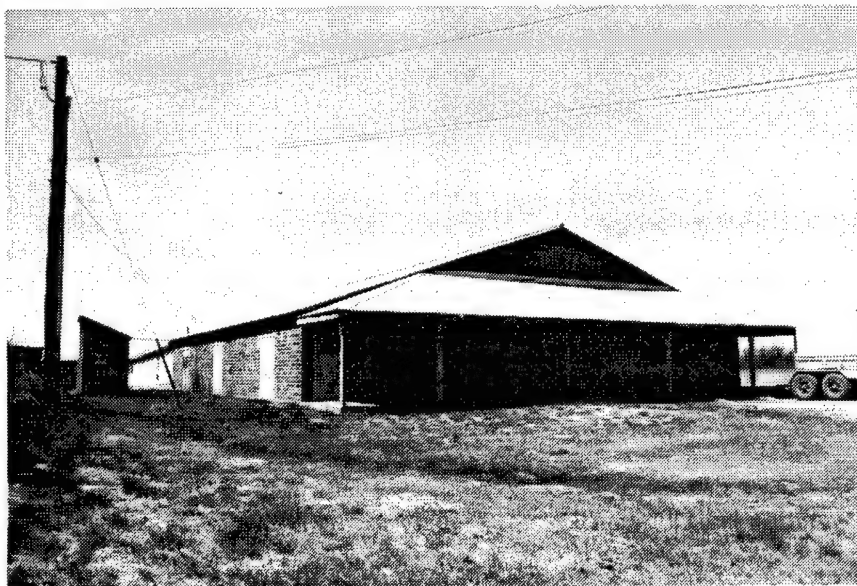


Figure 52. Building 1147: Cooling Building. This facility's original function may have been different.



Figure 53. Building 1145: This building was recently used as a Drilling Building; however, the original function of this Metal Parts Loading Building is not known.

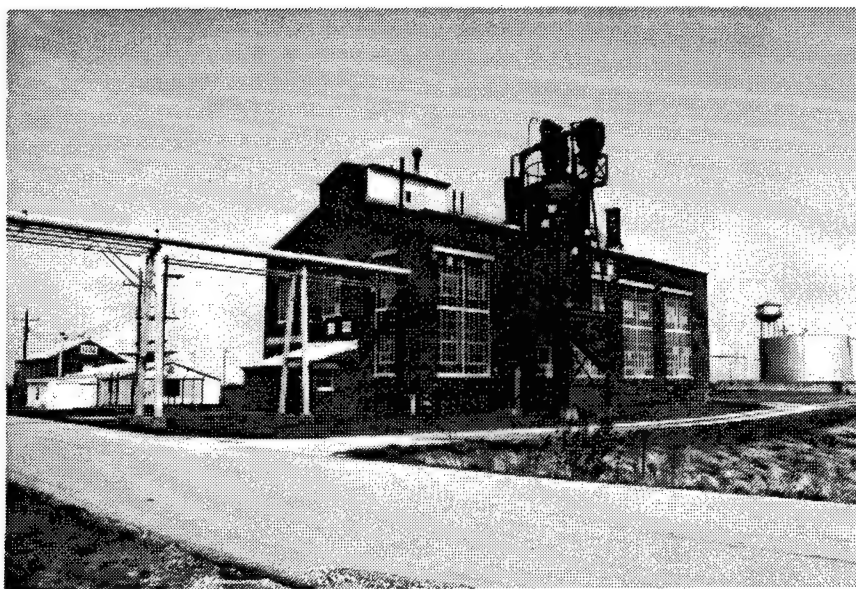


Figure 54. Building 1205: Coal Boiler House located on the 1200 Line that served as the Ammonium Nitrate Plant Modifier.



Figure 55. Building 306: Major Caliber Building for explosives located on the 300 Line that was responsible for fuze loading during World War II.

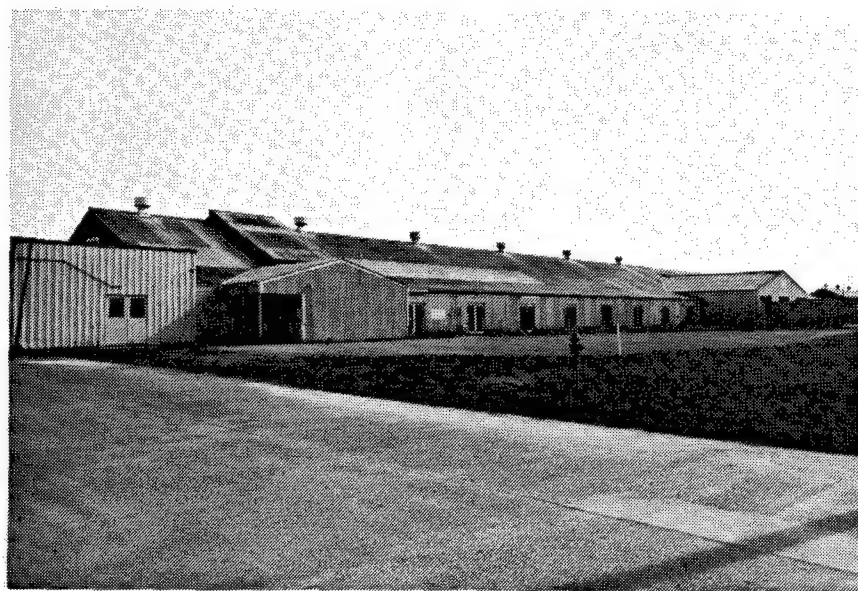


Figure 56. Building 315: Assembly Building.

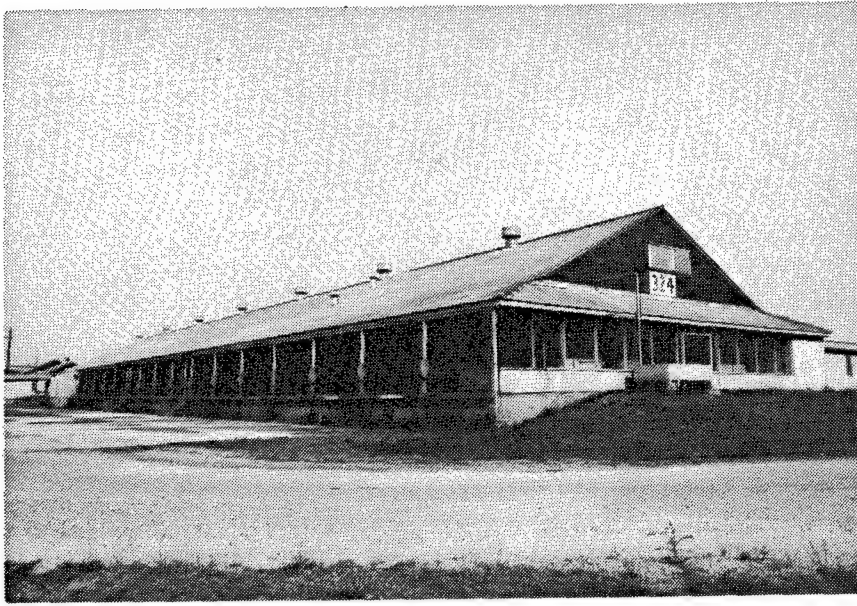


Figure 57. Building 324: Assembly Building.



Figure 58. Building 326: This Major Caliber Building functioned as a service building.

SUPPORT FACILITIES FOR MANUFACTURING



Figure 59. Building 57: Administration Quality Facility where ammunition was tested.

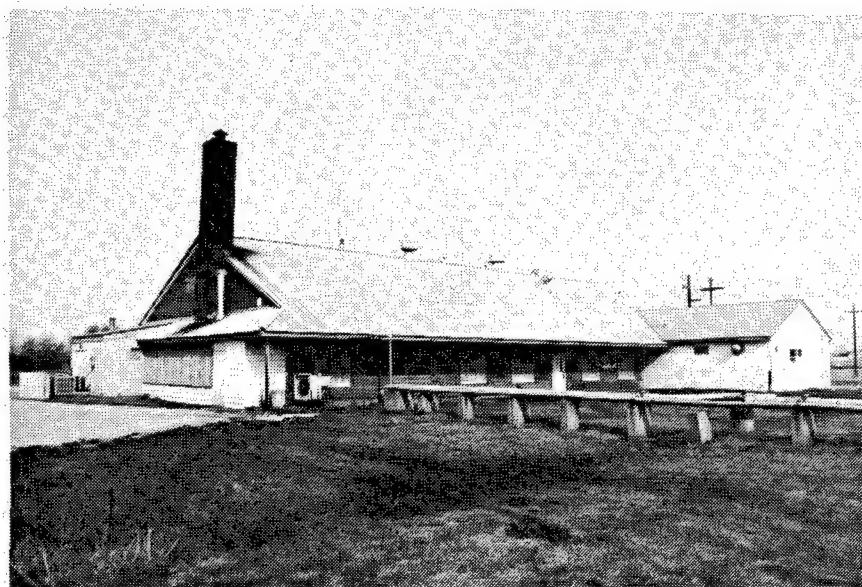


Figure 60. Building 58: Metrology and Chemical Laboratory.



Figure 61. Building 112: Laundry Building.



Figure 62. Building 202: Vehicle Maintenance Shop/Garage for the General Purpose Administration Building.



Figure 63. Building 203: General Purpose Administration/Maintenance Shop.



Figure 64. Building 203: Maintenance Shop portion of the General Purpose Administration Building.

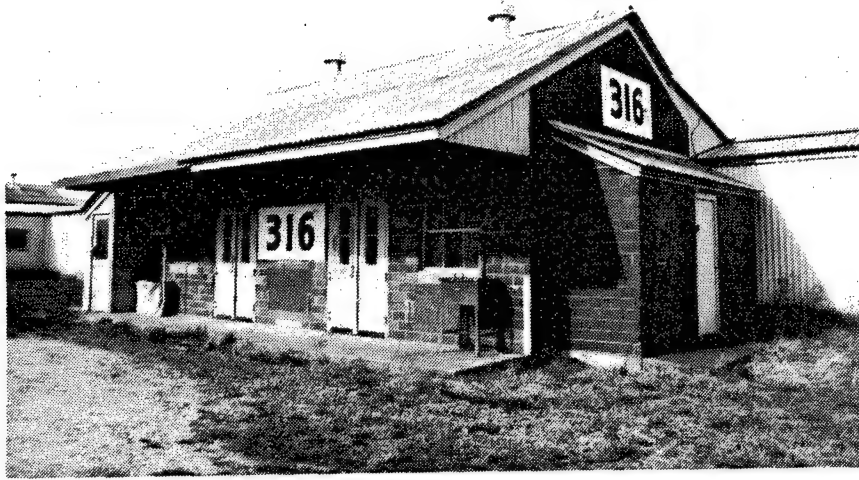


Figure 65. Building 316: Electrical Shop and Inert Storage Building.

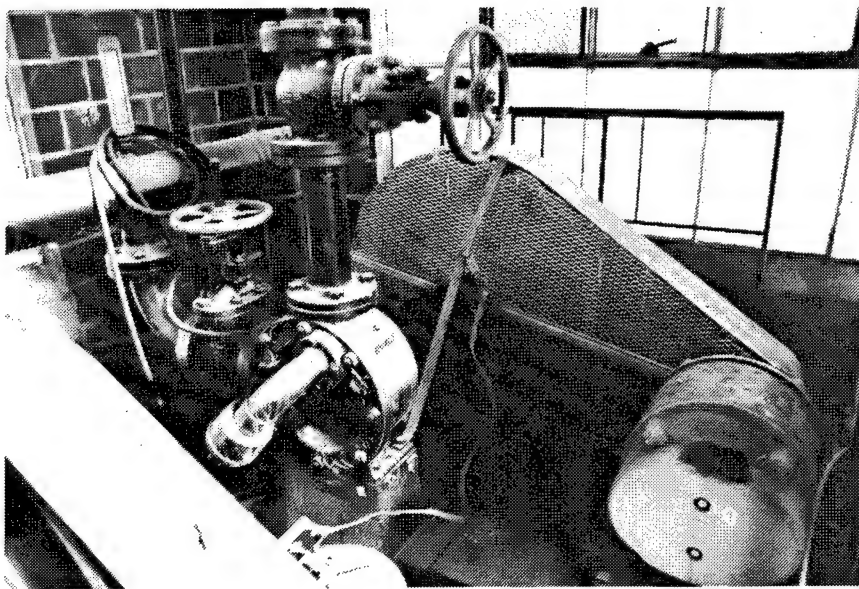


Figure 66. Building 210: Oil Pump House associated with a Boiler House.

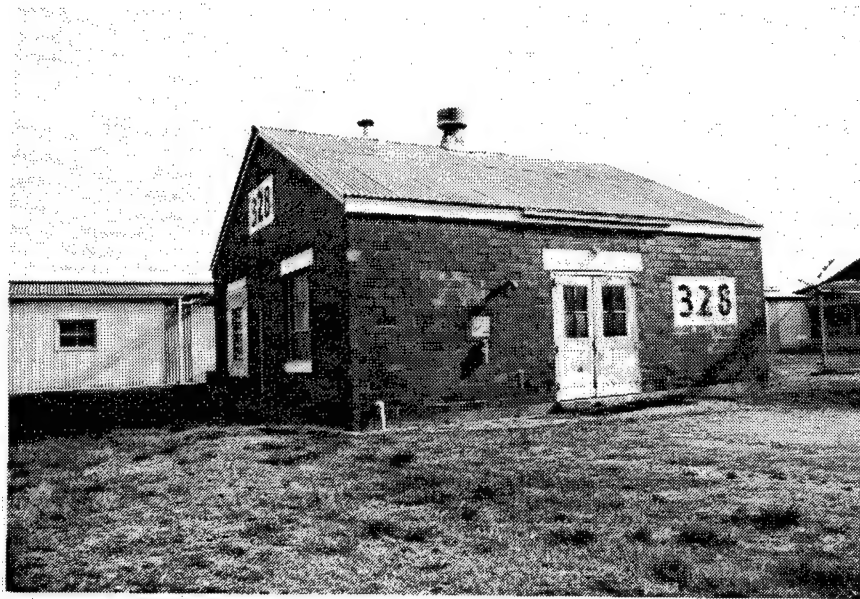


Figure 67. Building 328: Compressed Air Building.

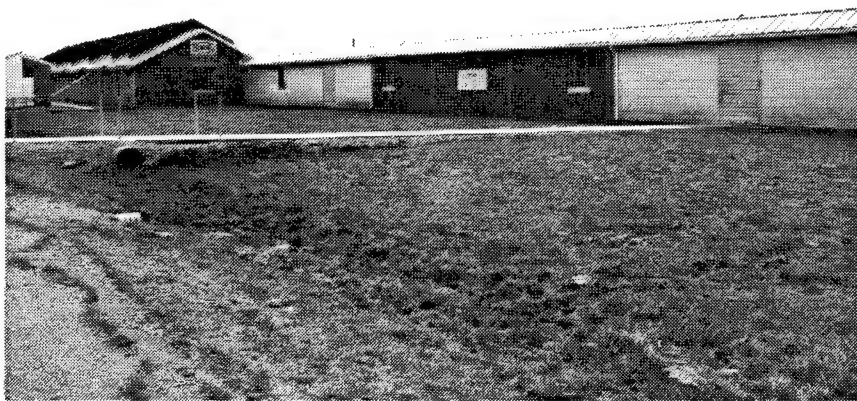


Figure 68. Between Building 504 and Building 507: This photo depicts a fire break in a covered walkway/transport way.

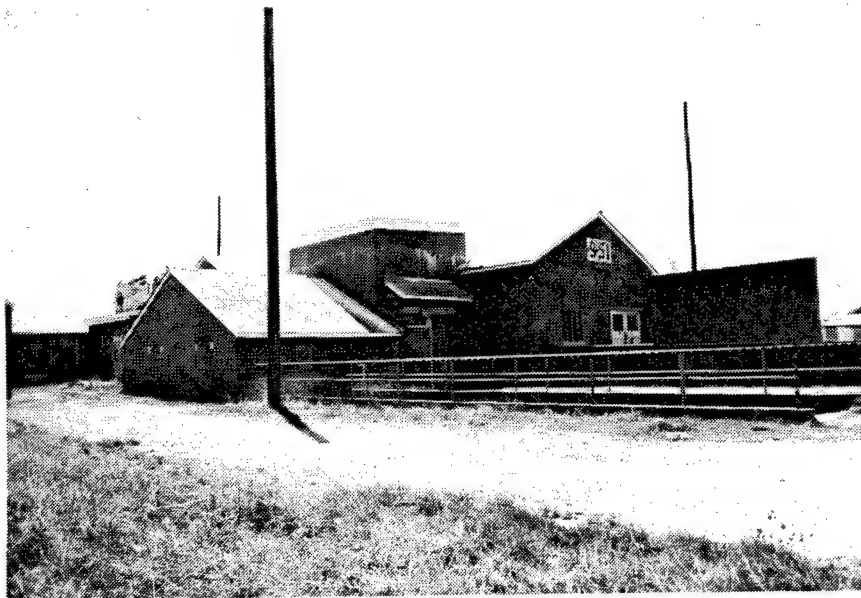


Figure 69. Building 951: X-Ray Building.

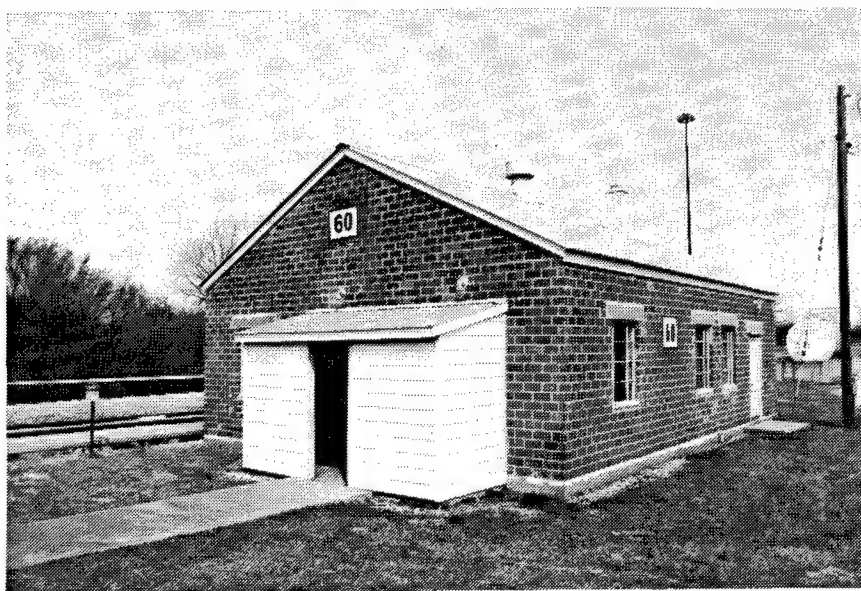


Figure 70. Building 60: Railroad Scale House.

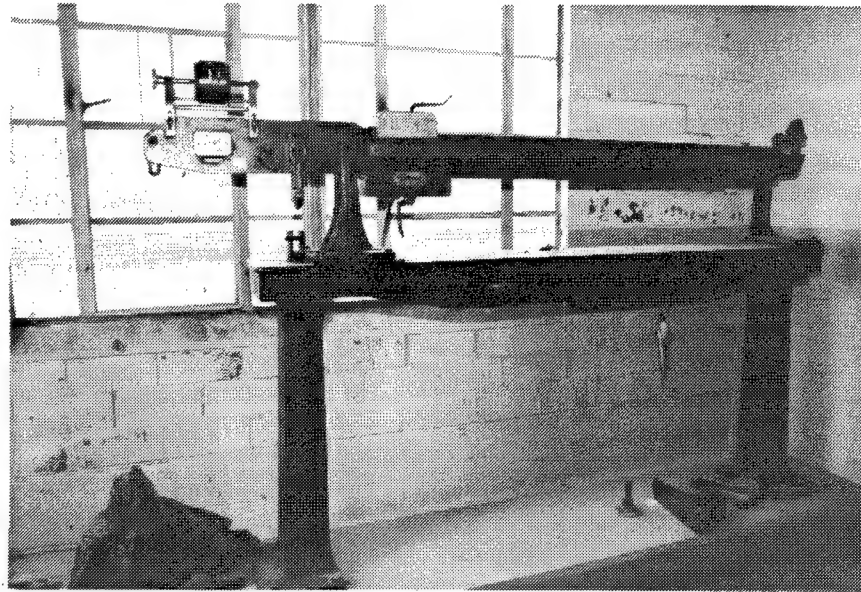


Figure 71. Building 60: Rutland Vermont Howe Scale at this Railroad Scale House.

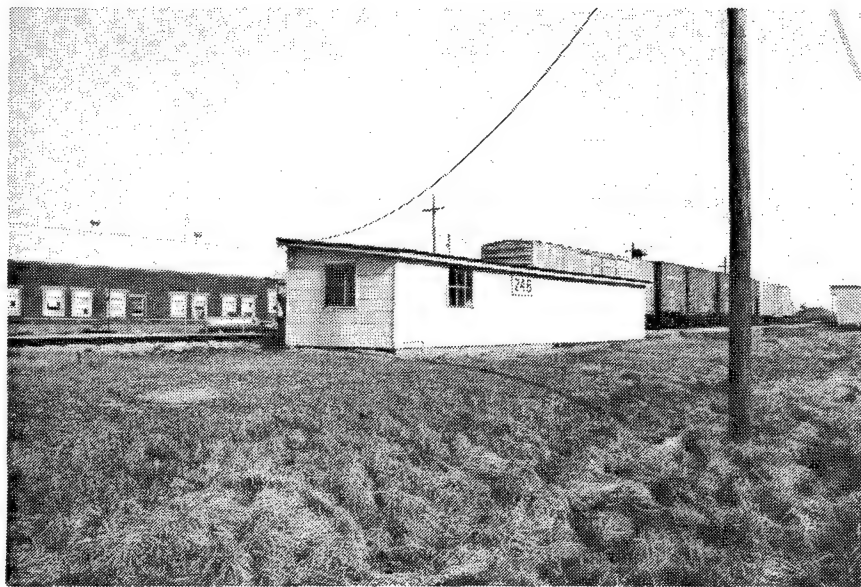


Figure 72. Building 246: Railroad Maintenance Building.

SHIPPING AND STORAGE FACILITIES

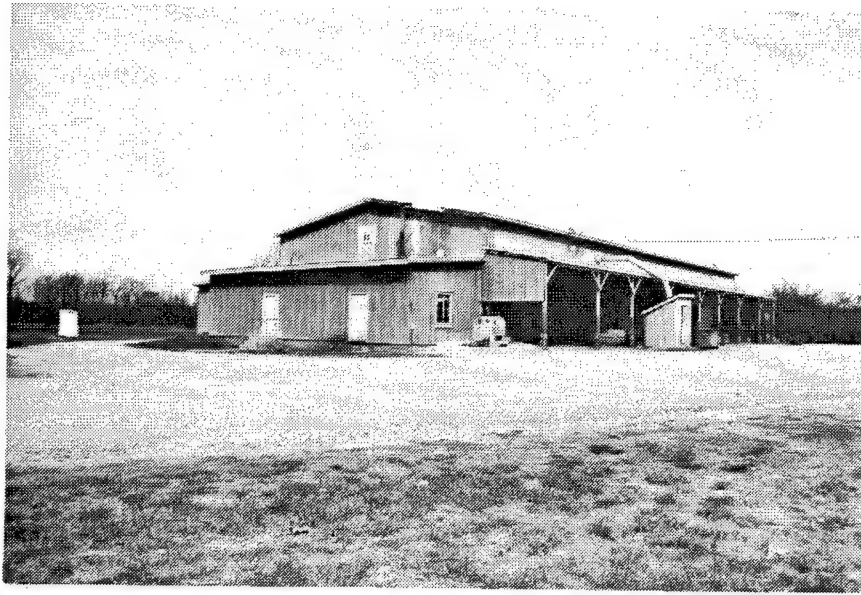


Figure 73. Building 80: General Storehouse.



Figure 74. Building 252: Lumber and Pipe Shed.



Figure 75. Building 1047: Storage Shed.



Figure 76. Building 1003: General Purpose Warehouse - Process Storage.

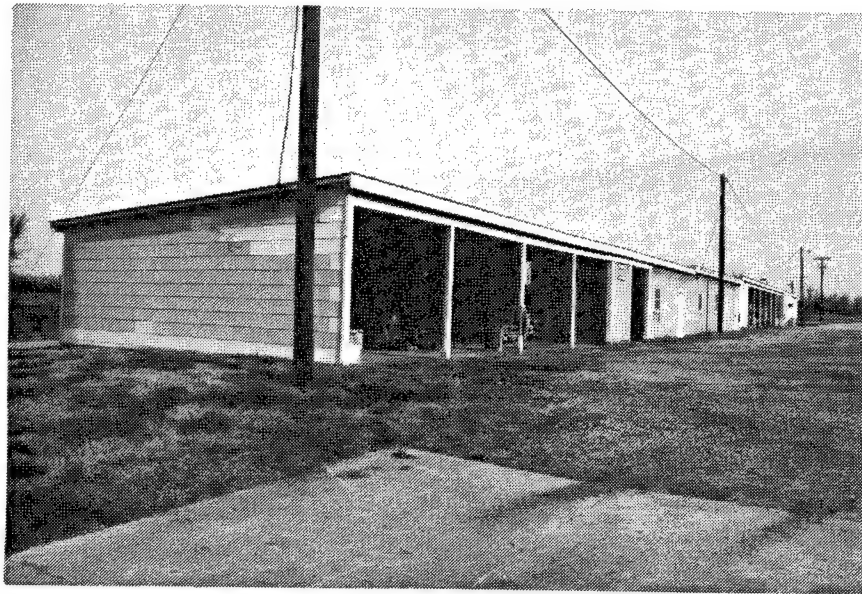


Figure 77. Building 221: General Purpose Warehouse.

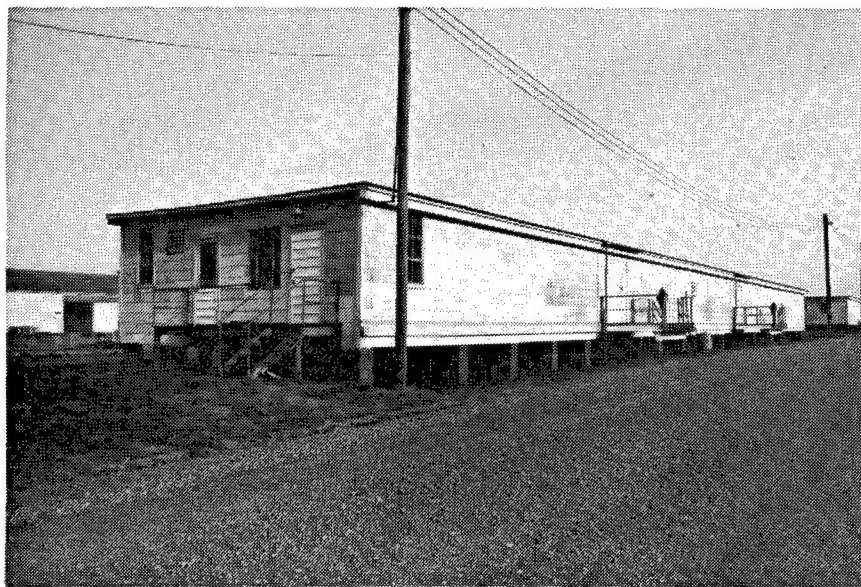


Figure 78. Building 211: General Purpose Warehouse.

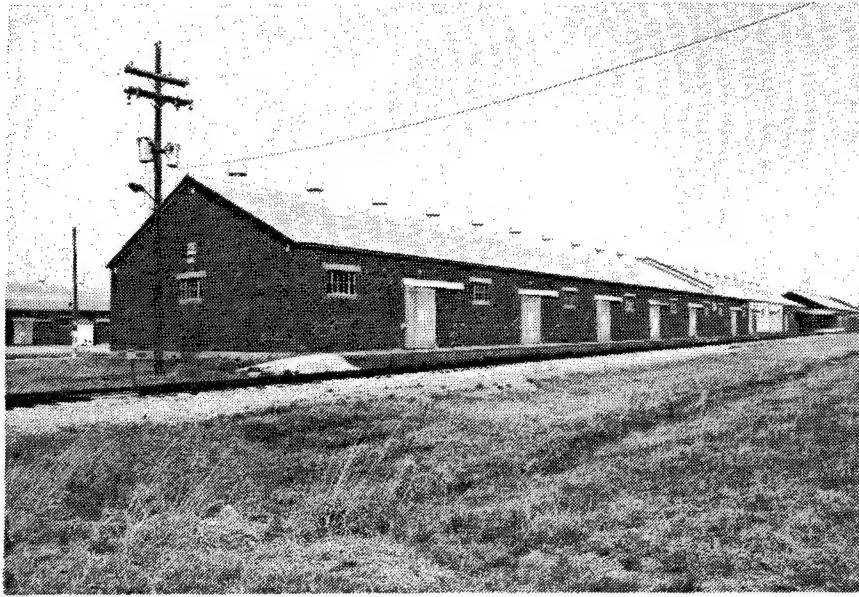


Figure 79. Building 1412: Inert Storage House: General Purpose Warehouse.

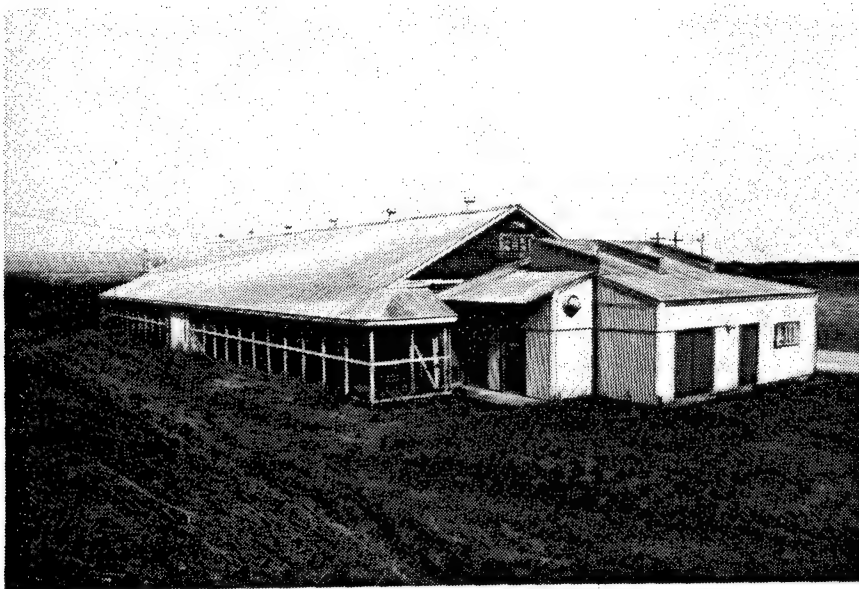


Figure 80. Building 311: Ready Magazine. Note the fire walls and earthen berm.



Figure 81. Building 502: Service Magazine with barricade (Building 525). Powder entered Kansas Army Ammunition Plant lines at facilities such as this one.



Figure 82. Building 1826: Finished Ammunition Magazine.

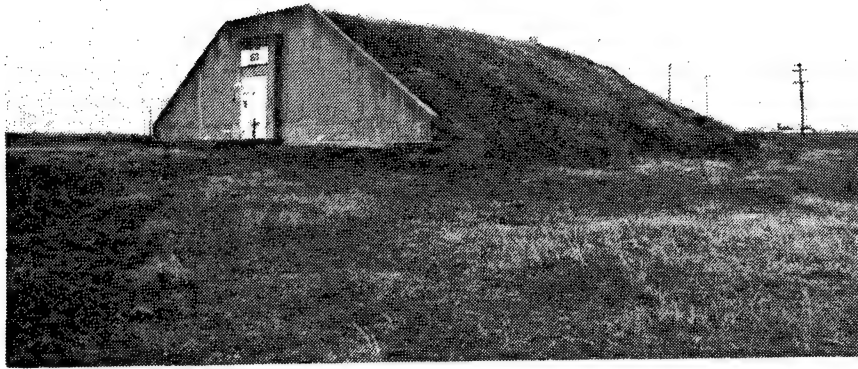


Figure 83. Building 1620: Storage Igloo.



Figure 84. Building 1005: Process Storage Building with earthen berm that was built to compensate for the close proximity between it and other buildings on the line.



Figure 85. Building 1206: Neutral Liquor Storage.

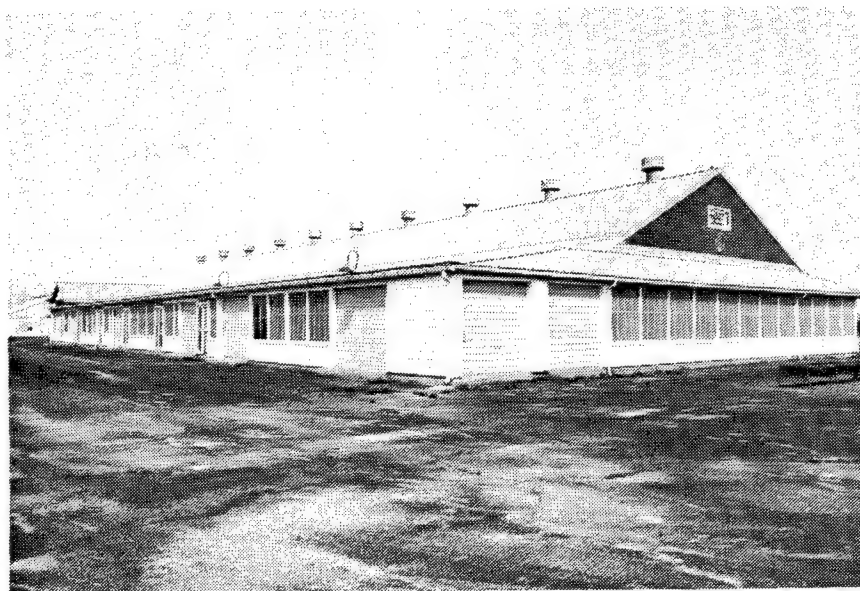


Figure 86. Building 507: Assembly, Pack, and Ship Building.



Figure 87. Building 723: Final Inspection, Packing, and Shipping Building.

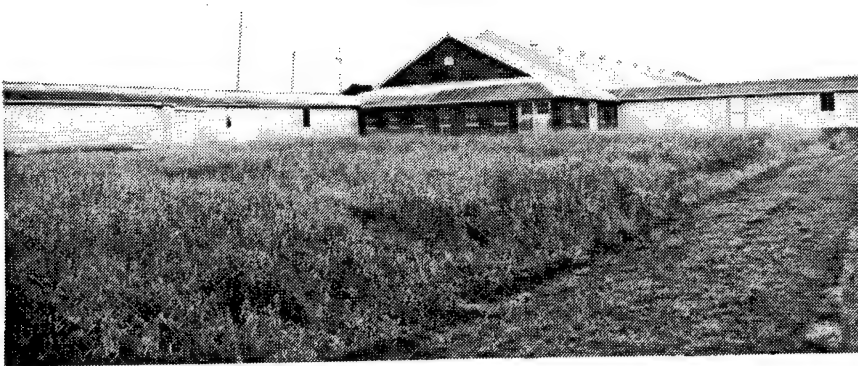


Figure 88. Building 1011: Drill Booster and Shipping Building.

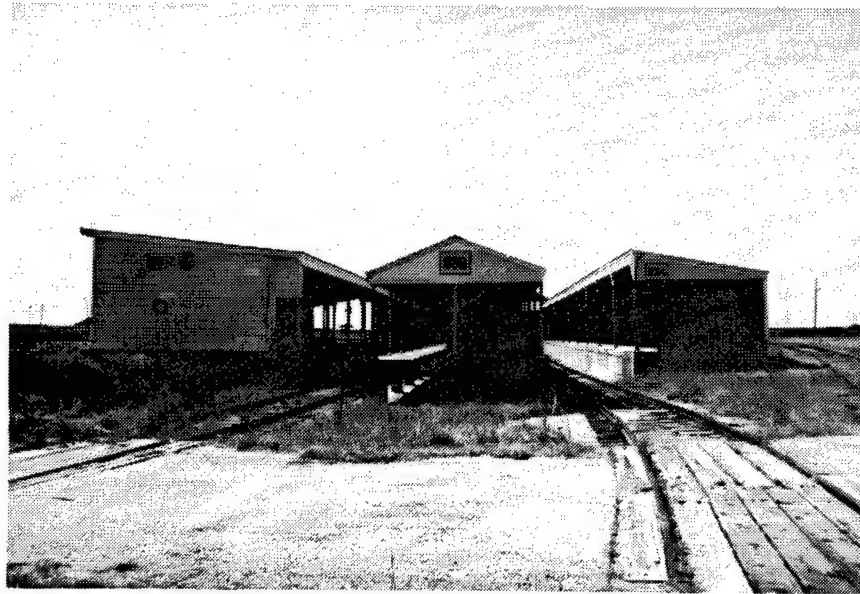


Figure 89. Buildings 932, 933, and 934: Loading docks with conveyor.



Figure 90. Building 934: Rail loading dock with semi-truck dock.

SUPPORT FACILITIES FOR EMPLOYEES



Figure 91. Building 208: Change House and Engineering Building in the 200 Area where employees changed into and out of work clothes.



Figure 92. Building 325: Change House typical of Change Houses on every production line at Kansas Army Ammunition Plant with the exception of the 1200 line.

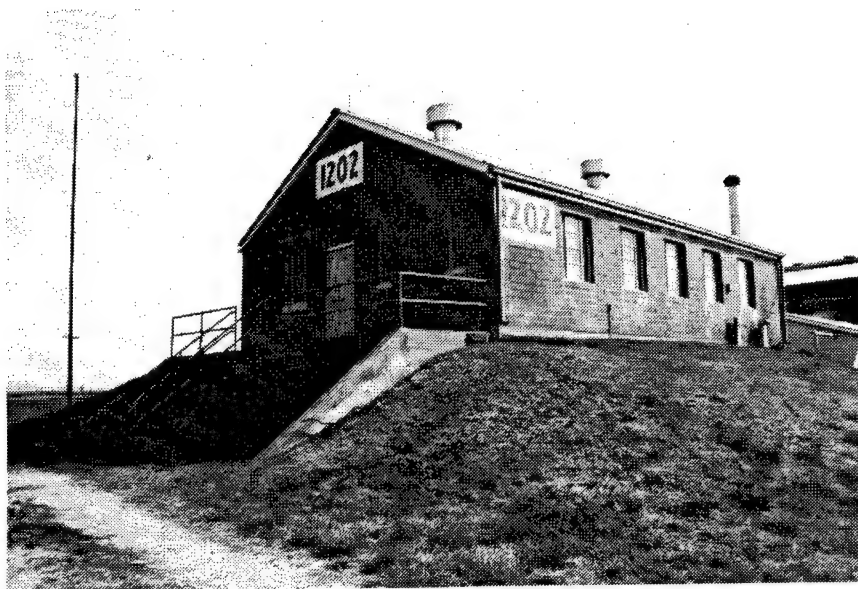


Figure 93. Building 1202: Change House in which the design differs from those on other lines.

UTILITIES AND INFRASTRUCTURE



Figure 94. Building 15: Sentry Station at Gate #3 at the Plant's North Entrance.



Figure 95. Building 52: Fire House.

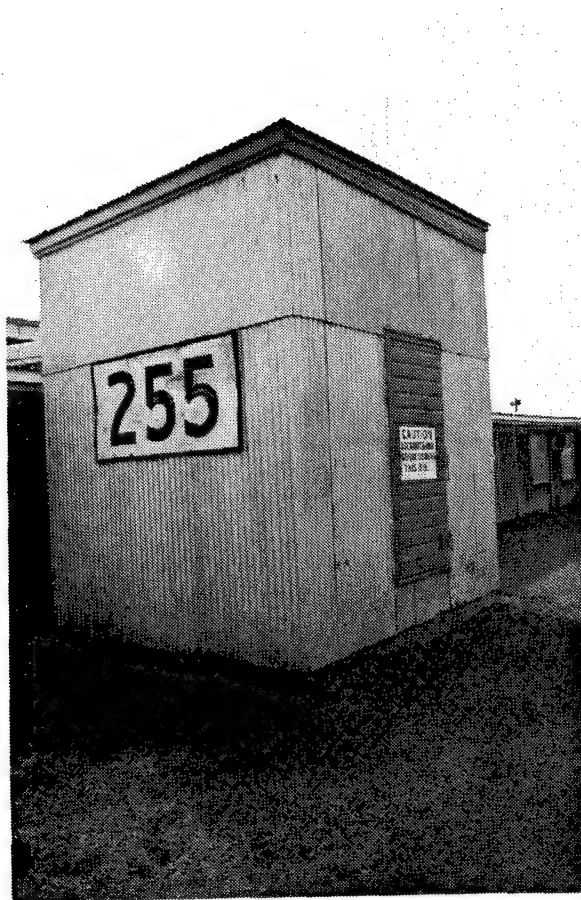


Figure 96. Building 255: Refuse Collection Building.



Figure 97. Building 209: Boiler House or Coal Generated Heating Building.

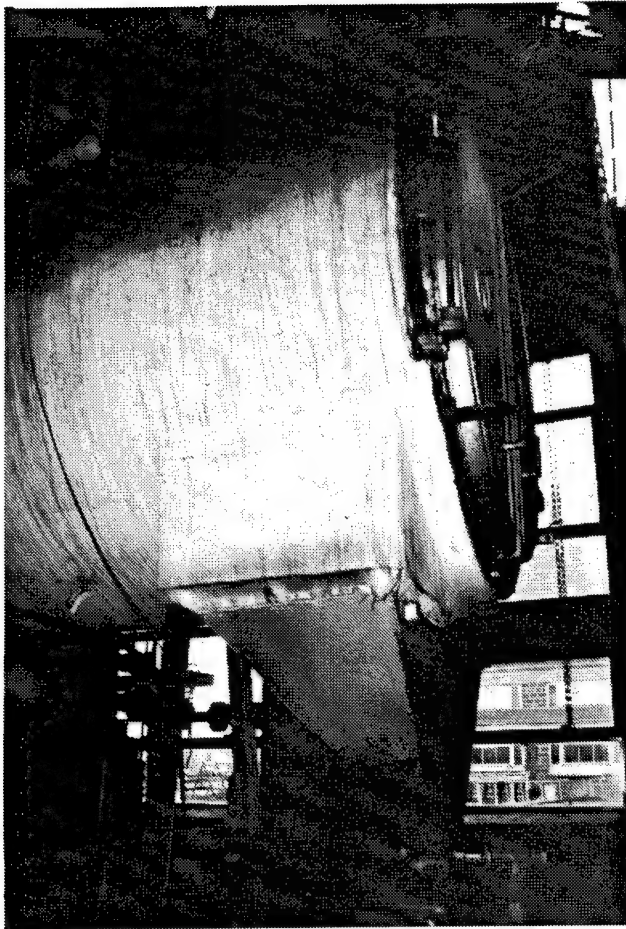


Figure 98. Building 209: A boiler in the Coal Generated Heating Building.



Figure 99. Building 210: Pump Station Building.

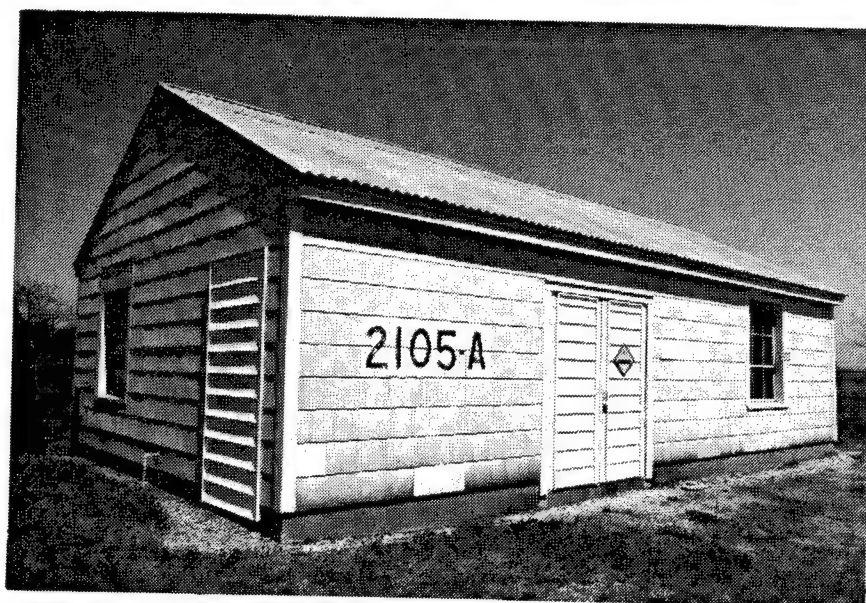


Figure 100. Building 2105A: Stone Quarry Pump House where water is pumped to and distributed by this centralized facility.

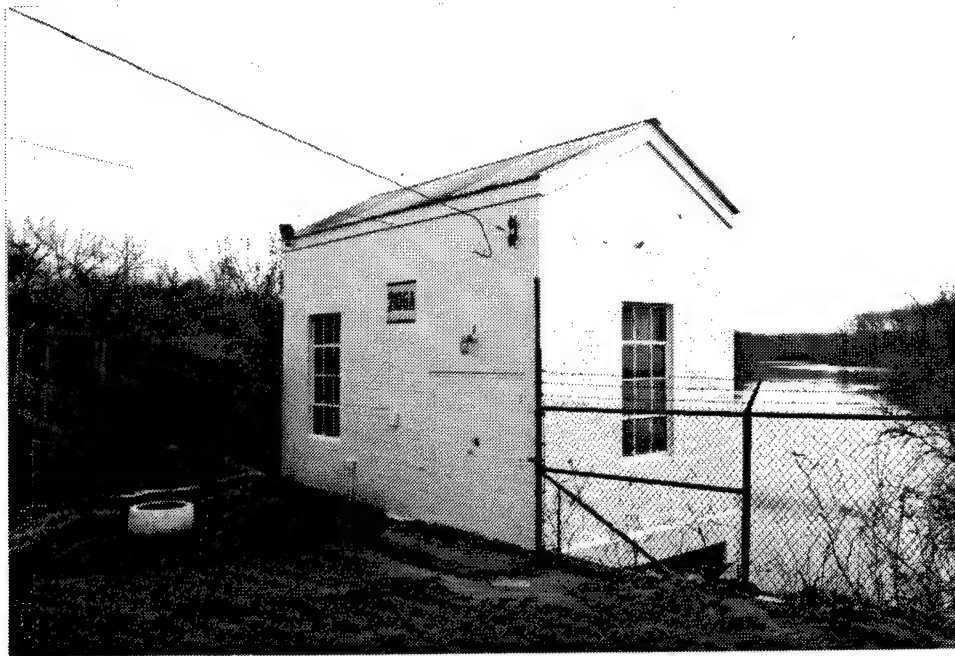


Figure 101. Building 2106A: Pump Station with low lift where the Plant's water is pumped from the river.



Figure 102. Building 2106: Water Treatment Plant, still utilized by the plant and a few local interests.

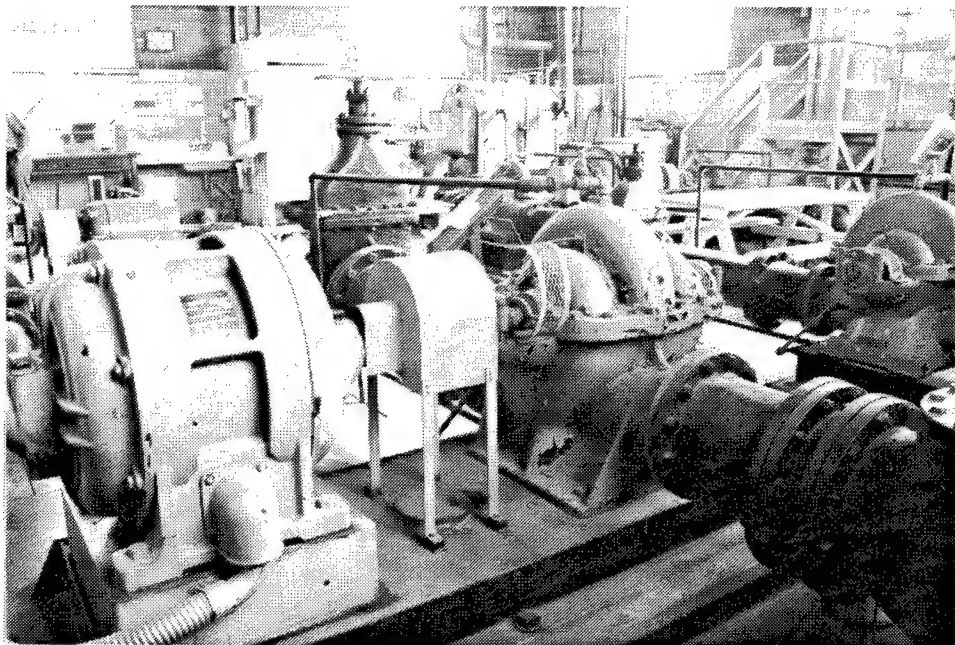


Figure 103. Building 2106: Raw water pump and motor.

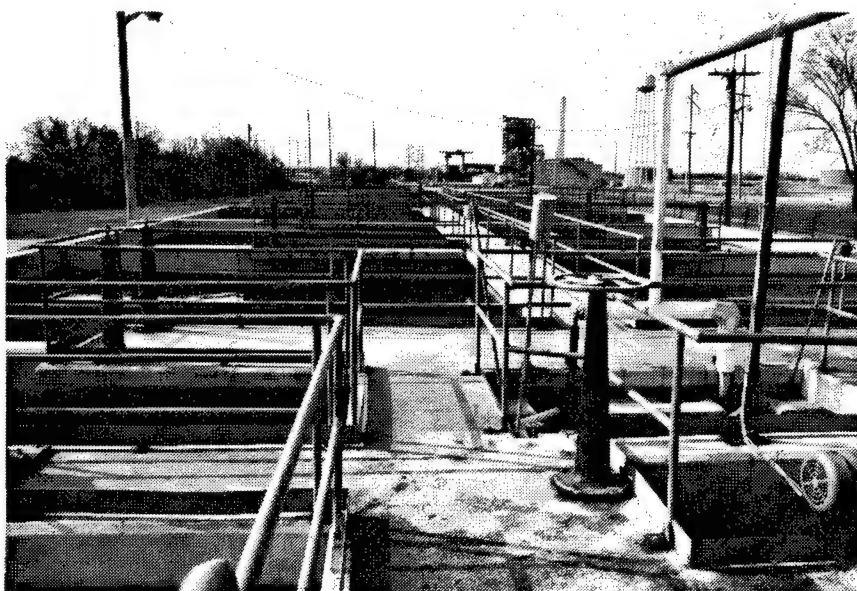


Figure 104. Building 2106: Settling Basin where sediment in the water is allowed to separate from and settle to the bottom of the basin.

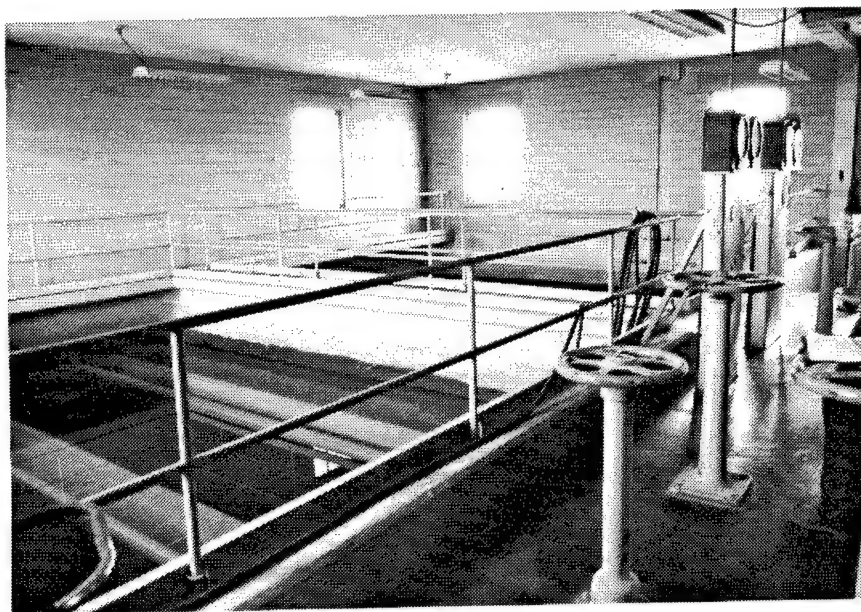


Figure 105. Building 2106: A sand filter where the sediment separating process is furthered.

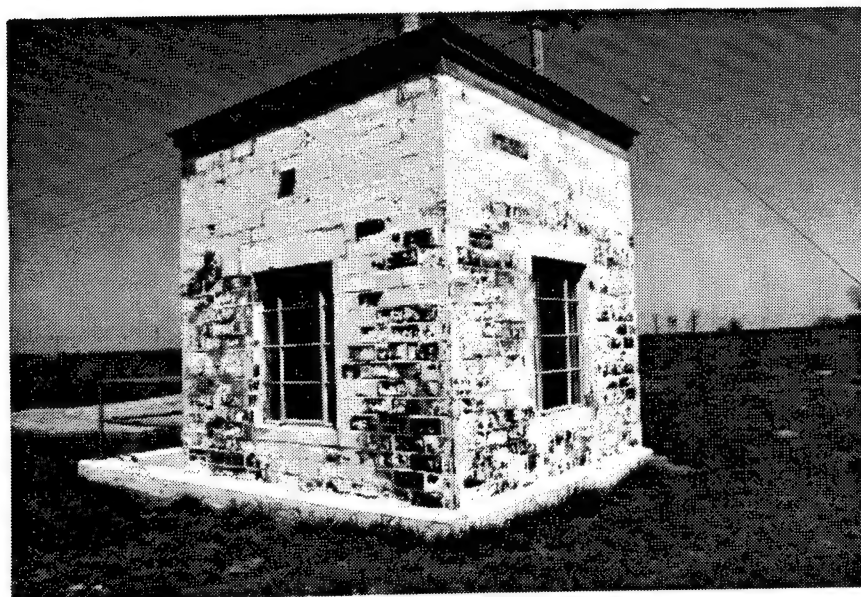


Figure 106. Building Number no longer known: Water Pump House which, at one time, supplied buildings in its general locale.

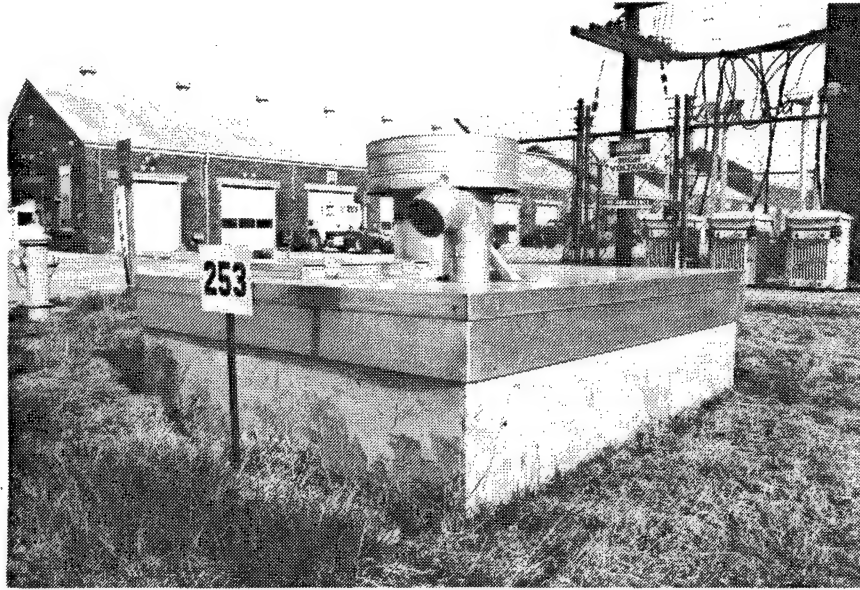


Figure 107. Building 253: Sewage Station where this covered pit serves as a Pump House.

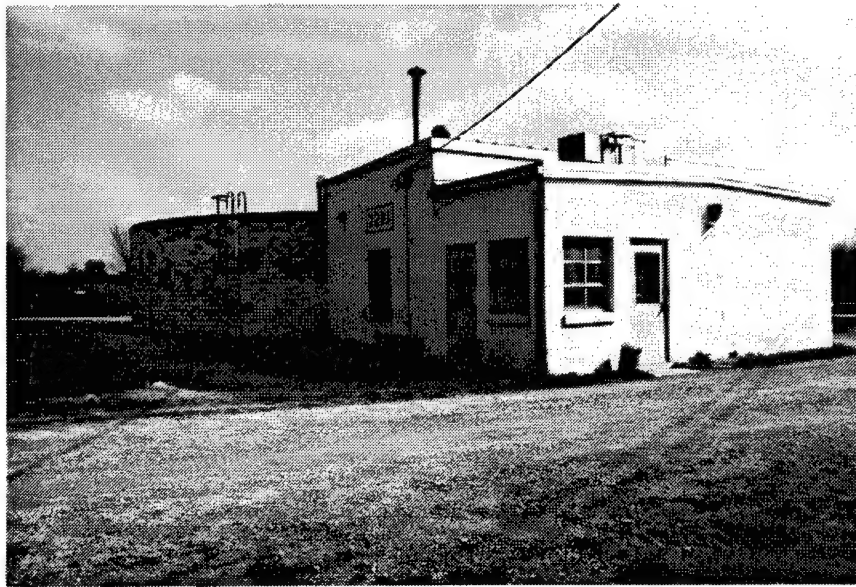


Figure 108. Building 2211 and Building 2203: Digestor Tank (Building 2211) is on the left, and Sewage Treatment Plant is on the right.

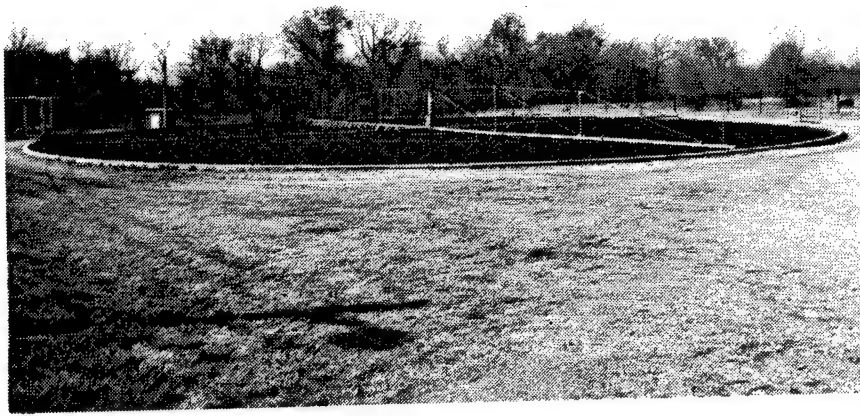


Figure 109. Building 2203: Sewage Sprinkler Filters.

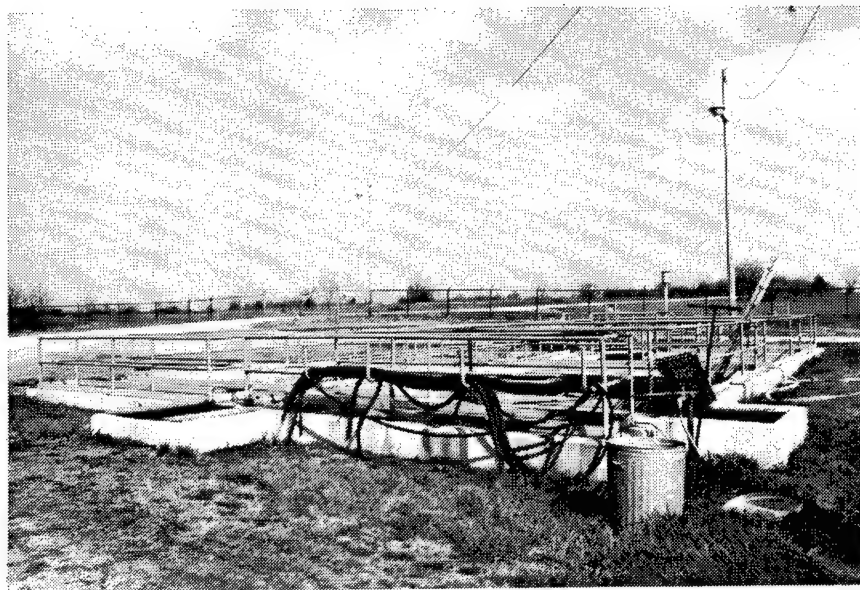


Figure 110. Building 2203: West side of the Sewage Settling Basins.

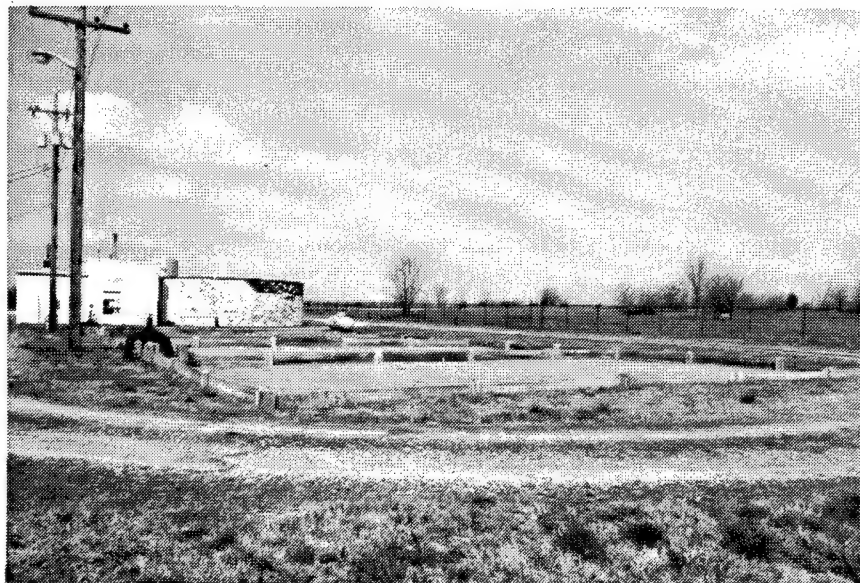


Figure 111. Building 2203: East side of the Sewage Drying Beds.

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Thomson, H., and L. Mayo

- 1991 *United States Army in World War II: The Technical Services: The Ordnance Department Procurement and Supply.* Center for Military History, United States Army, Washington, D.C.

United States Government

- n.d. *Ordnance War Administration History Series II. The Ordnance organization in World War II.* Study Number 11. Facilities. Monograph Number 1. GOCO Facilities Directory.

APPENDIX A

PHOTOGRAPHIC DATA SHEETS

GEO-MARINE INC.
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 1

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
1	15	Sentry Station at gate #3 (the north entrance to the plant); east front and south side	NW	04/04/94	Hiatt
2	52	Fire House, NW front and SW side	E	04/04/94	Hiatt
3	52	Fire House, NW front and SW side	E	04/04/94	Hiatt
4	210	Oil Pump House associated with a Boiler House		04/04/94	Hiatt
5	210	Second angle, Oil Pump House associated with a Boiler House		04/04/94	Hiatt
6	210	Pump Station Building, east front and south side	NW	04/04/94	Hiatt
7	209	Boiler House or Coal Generated Heating Building, east front and south side	NW	04/04/94	Hiatt
8	209	Boiler House: coal hopper w/conveyor. Horizontal running conveyor is modern.	NW	04/04/94	Hiatt
9	209	Boiler in the Boiler Building		04/04/94	Hiatt
10	209	Boiler body in the Boiler House		04/04/94	Hiatt
11	209	Feed end of boiler in the Boiler House		04/04/94	Hiatt
12	211	General Purpose Warehouse, east and south sides	NW	04/04/94	Hiatt
13	202	General Purpose Administration Building, north front and east side	SW	04/04/94	Hiatt
14	207	General Purpose Administration Building, north front and east side	SW	04/04/94	Hiatt
15	208	Change House and Engineering Building for the 200 area, east and south sides	NW	04/04/94	Hiatt
16	203	General Purpose Administration/Maintenance shop, north and east sides	SW	04/04/94	Hiatt
17	203	General Purpose Administration/Maintenance Shop, north and east sides	SW	04/04/94	Hiatt
18	221	General Purpose Warehouse, east and north sides	SW	04/04/94	Hiatt
19	202	Second angle of the Vehicle Maintenance Shop/Garage for the General Purpose Administration Building, east and	SW	04/04/94	Hiatt

GEO-MARINE INC.
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 1

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
		north sides			
20	203	Maintenance Shop portion of the General Purpose Administration Building, east and south sides	NW	04/04/94	Hiatt
21	246	Railroad Maintenance building, east and south sides	NW	04/04/94	Hiatt
22	253	Covered pit serving as a pump house at the sewage station, east and south sides	NW	04/04/94	Hiatt
23	252	Lumber and Pipe Shed, east and south sides	NW	04/04/94	Hiatt
24	252	Lumber and Pipe Shed, east and south sides	NW	04/04/94	Hiatt
25	322	General Purpose Administration Building, west front and south side	NE	04/04/94	Hiatt
26	325	Change House, east front and south side	NW	04/04/94	Hiatt
27	325	Second angle, Change House, east and north sides	SW	04/04/94	Hiatt
28	328	Compressed Air building, south front and west side	NE	04/04/94	Hiatt
29	315	Assembly Building with new extension to west, (picture not inclusive), south side	NE	04/04/94	Hiatt
30	326	Major Caliber Building which functioned as a service building, north and west sides	SE	04/04/94	Hiatt
31	311	Ready Magazine with firewalls and earthen berm, east and south sides	NW	04/04/94	Hiatt
32	311	Second angle, Ready magazine with firewalls and earthen berm		04/04/94	Hiatt
33	316	Electric Shop and Inert Storage Building, east and south sides	NW	04/04/94	Hiatt
34	306	Major Caliber Building for explosives on the 300 line which was responsible for fuze loading during WWII, north and front side	S	04/04/94	Hiatt
35	324	Assembly Building, east and south sides	NW	04/04/94	Hiatt
36	312 & 325	Overview of two Change Houses	SW	04/04/94	Hiatt

Page: 3

GEO-MARINE INC.
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 1

Exp.

No.	Building No(s).	Description	Dir.	Date	Recorder
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37	58	Metrology and Chemical Laboratory, east and south sides	NW	04/04/94	Hiatt
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GEO-MARINE INC.
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 2

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
2	57	Administration Quality Facility where ammunition was tested, east and south sides	NW	04/04/94	Hiatt
3	255	Refuse Collection building, north and west sides	SE	04/04/94	Hiatt
4	515	Air Compressor building, east and south sides	NW	04/04/94	Hiatt
5	509	Boiler House/Oil Heating building: oil heated boiler		04/04/94	Hiatt
6	509	Oil Heating building/Boiler House: Oil service pump (rear) and oil feed pump (front) with General Electric motor		04/04/94	Hiatt
7	509	Boiler House/Oil Heating Building: Close-up of oil service pump & oil feed pump motor		04/04/94	Hiatt
8	509	Oil Heating Building/Boiler House: Oil heated boiler		04/04/94	Hiatt
9	509	Boiler House/Oil Heating Building: Plumbing and motor for de-aired water		04/04/94	Hiatt
10	509	Oil Heating Building or Boiler House, east and south sides	NW	04/04/94	Hiatt
11	502 & 525	Service Magazine (#502) with barricade (#525), south side	N	04/04/94	Hiatt
12	503	Ramp to Screen House	E	04/04/94	Hiatt
13	503	Screen House of the metal parts and loading building series located on the booster and supplementary charge line, north and west sides	SE	04/04/94	Hiatt
14	504 & 507	Fire break in covered walkway between 504 & 507, north side	E	04/04/94	Hiatt
15	540	Vacuum building, south and west sides	NE	04/04/94	Hiatt
16	505	Tetryl Pelleting building, east and north sides	SW	04/04/94	Hiatt
17	507	Assembly Pack and Shipping building, east and south sides	NW	04/04/94	Hiatt
18	513	Metal Parts Loading Building where boosters and other charges were assembled, packed and shipped out, east and north sides	SW	04/04/94	Hiatt

GEO-MARINE INC.
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 2

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
19	513	Metal Parts Loading Building, east and north sides	SW	04/04/94	Hiatt
20	60	Railroad Scale House for weighing railroad cars and their contents, east and south sides	NW	04/04/94	Hiatt
21	1412	Inert Storage Warehouse/General Purpose Warehouse, east and south sides	NW	04/04/94	Hiatt
22	53	General Administration Building		04/04/94	Hiatt
23	80	General Storehouse, east and south sides	NW	04/04/94	Hiatt
24	818	Air Compressor Building: Chicago Pneumatic Air Compressor (#62736)		04/04/94	Hiatt
25	818	Air Compressor Building: Second angle, Chicago Pneumatic Air Compressor (#62736)		04/04/94	Hiatt
26	818	Air Compressor Building, front and east side	W	04/04/94	Hiatt
27	809	Primer Loading Building, first floor: 1942 motor driven, volumetric, Loading machine with 12 stations, rotary table, and manual clutch		04/04/94	Hiatt
28	809	Primer Loading Building: second angle of 1942 motor driven, volumetric, primer loading machine		04/04/94	Hiatt
29	809	Primer Loading Building, first and second floors: Elevator for black powder		04/04/94	Hiatt
30	809	Primer Loading Building: Interior of ramp		04/04/94	Hiatt
31	812	Primer Preparation Building: 1942 Consolidated packing machine (#62709)		04/04/94	Hiatt
32	812	Primer Preparation Building: Close-up of 1942 Consolidated packing machine (#62709)		04/04/94	Hiatt
33	812	Primer Preparation Building: Lacquering machine		04/04/94	Hiatt
34	812	Primer Preparation Building: Second angle of lacquering machine		04/04/94	Hiatt
35	812	Primer Preparation Building: Pennsylvania Pinhead machine (#65365)		04/04/94	Hiatt

GEO-MARINE INC.
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 2

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
36	812	Primer Preparation Building: Second angle of Pennsylvania Pinhead machine (#65365)		04/04/94	Hiatt
37	812	Primer Preparation Building: Wash table (#65945)		04/04/94	Hiatt

GEO-MARINE INC.
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 3

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
1	841	Primer Dry House: 1942 Carrier dryer oven for loaded primers		04/04/94	Hiatt
2	841	Primer Dry House: second angle of carrier dryer oven for loaded primers		04/04/94	Hiatt
3	812	Primer Preparation Building, east bay: Air conditioner condensor cooling unit (#69964)		04/04/94	Hiatt
4	812	Primer Preparation Building: Air Conditioner Compressor (#69962)		04/04/94	Hiatt
5	812	Primer Preparation Building: Heater (#69972)		04/04/94	Hiatt
6	812	Primer Preparation Building, north and east sides	SW	04/04/94	Hiatt
7	841	Primer Dry House built in 1951		04/04/94	Hiatt
8	804	Black Powder Screening House: screen (#98708)		04/04/94	Hiatt
9	804	Black Powder Screening House: second angle of screen (#98708)		04/04/94	Hiatt
10	807	Fan House, north and west sides	SE	04/04/94	Hiatt
11	805	Ready Magazine, formerly a Black Powder Rest House, north and east sides	SW	04/04/94	Hiatt
12	816	Black Powder Pelleting Building, south and west sides	NE	04/04/94	Hiatt
13	809	Primer Loading Building, south front and north side		04/04/94	Hiatt
14	1620	Storage Igloo, west front and south side	NE	04/04/94	Hiatt
15	1626	Sentry House, east and south sides	NW	04/04/94	Hiatt
16	112	Laundry Building, south and west sides	NE	04/05/94	Hiatt
17	724	Oil Boiler House, south and west sides	NE	04/05/94	Hiatt
18	715	Loading Building, north and west sides	SE	04/05/94	Hiatt
19	723	Final Inspection, Packing, and Shipping Building, south and west sides	NE	04/05/94	Hiatt
20	722	Detonator Rumbling Building which recently served as a Detonator lacquering (painting) building, south and west	NE	04/05/94	Hiatt

GEO-MARINE INC.
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 3

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
		sides			
21	722	Detonator Rumbling Building which recently served as a Detonator Lacquering Building, south and west sides	NE	04/05/94	Hiatt
22	732	Rest House remodeled to serve as a Primer Mix Bowling building, note blow panels, west and south sides	NE	04/05/94	Hiatt
23	706	Mercury Preparation House, south and west sides	NE	04/05/94	Hiatt
24	706	Mercury Preparation House, south and west sides	NE	04/05/94	Hiatt
25	703 & 704	Heater House (#703-left) and Azide Building (#704-right), on 700 line that produced detonators, east and south sides	NW	04/05/94	Hiatt
26	740 & 713	Azide Napkin Preparation Building (#740-left) and its associated Heater House (#713-right), south and west sides	NE	04/05/94	Hiatt
27	744	Compressor House, south and west sides	NE	04/05/94	Hiatt
28	1003	General Purpose Warehouse - process storage, building ends at far side of loading dock, north and west sides	SE	04/05/94	Hiatt
29	1003	Second angle, General Purpose Warehouse - process storage, north and east sides	SW	04/05/94	Hiatt
30	1005	Process Storage Building with earthen berm, north and west sides	SE	04/05/94	Hiatt
31	1004	Oil and Paint Building, north front and east side	SW	04/05/94	Hiatt
32	1006	Metal Part Loading Building on the 1000 line that produced 105 mm ammunition, south and west sides	NE	04/05/94	Hiatt
33	1017	Screening Building, north and west sides	SE	04/05/94	Hiatt
34	1018	Air Compressor, Chicago Pneumatic, Aux. Booster Service		04/05/94	Hiatt
35	1018	Second angle, air compressor, Chicago Pneumatic, Aux Booster Service		04/05/94	Hiatt
36	1006	Metal Loading Building, first floor: Pour trailer (#95473)		04/05/94	Hiatt

GEO-MARINE INC.
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 3

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
37	1006	Metal Loading Building, second floor: Cleveland Melt kettle (#5789)		04/05/94	Hiatt

GEO-MARINE INC.
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 4

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
2	1006	Metal Loading Building, second floor: second angle, Cleveland Melt kettle		04/05/94	Hiatt
3	1006	Metal Loading Building, second floor: Cyclone, Roto-Clone Air Scrubber (#70141)		04/05/94	Hiatt
4	1006	Metal Loading Building, second floor: second angle, Cyclone, Roto-Clone Air Scrubber (#70141)		04/05/94	Hiatt
5	1006	Metal Loading Building, second floor: Melting tanks (#42454)		04/05/94	Hiatt
6	1006	Metal Loading Building, second floor: second angle, Melting tanks (#42454)		04/05/94	Hiatt
7	1006	Metal Loading Building, third floor: Cyclone Roto-Clone Air Scrubber (#70139)		04/05/94	Hiatt
8	1006	Metal Loading Building, first floor: close up of Hot probs. (#68186)		04/05/94	Hiatt
9	1006	Metal Loading Building, first floor: close up, second angle of hot probs. (#68186)		04/05/94	Hiatt
10	1006	Metal Loading Building, first floor: Kettle bottom		04/05/94	Hiatt
11	1006	Metal Loading Building: Multiplex core units		04/05/94	Hiatt
12	1006	Metal Loading Building: second angle, Multiplex core units		04/05/94	Hiatt
13	1006	Metal Loading Building: second angle, Multiplex core units, south side		04/05/94	Hiatt
14	1006	Metal Loading Building: Continued "panorama" of multiplex core units, south side east		04/05/94	Hiatt
15	1017	Second floor, Dust collector and conveyor for propellant		04/05/94	Hiatt
16	1019	Cooling Building, south and west sides	NE	04/05/94	Hiatt
17	1020	T.N.T Screen House, north and west sides	SE	04/05/94	Hiatt
18	1011	Drill Booster and Shipping, south and west side	NE	04/05/94	Hiatt

GEO-MARINE INC.
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 4

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
19	1047	Storage Shed, east and south sides	NW	04/05/94	Hiatt
20	1047	Storage Shed, east and south sides	NW	04/05/94	Hiatt
21	1011 ext	Box Unloading Ramps for railroad (modern addition?) at the Drill Booster and Shipping Building		04/05/94	Hiatt
22	1011 Ext	Box Unloading Ramps for railroad (modern addition?) at the Drill Booster and Shipping Building		04/05/94	Hiatt
24	1023 & 1022	Vacuum Pump Houses, north and east sides	SW	04/05/94	Hiatt
25	1012 & 1013	Vacuum Pump Houses, north and east sides	SW	04/05/94	Hiatt
26	1010	Booster House, north and west sides	SE	04/05/94	Hiatt
27	1078	Wash House for medium caliber loading buildings, east and south sides	NW	04/05/94	Hiatt
28	1071 & 1096	Vacuum Houses for medium caliber loading buildings, south and west sides	NE	04/05/94	Hiatt
29	1095	Vacuum House for medium caliber loading buildings, north side	S	04/05/94	Hiatt
30	1072 & 1090	Vacuum houses for medium caliber loading buildings		04/05/94	Hiatt
31	1072 & 1090	Vacuum houses for medium caliber loading buildings		04/05/94	Hiatt
32	1048 & 1082	Vacuum Pump House and Vacuum House		04/05/94	Hiatt
33	1048 & 1082	Vacuum Pump House and Vacuum House		04/05/94	Hiatt
34	2106A	Pump Station with low lift where water is pumped from the river, west front and south side	NE	04/06/94	Hiatt
35	2106A	Pump Station with low lift where water is pumped from the river, west front and south side	NE	04/06/94	Hiatt
36	2106	Water Treatment Plant: Raw Water Pump and motor (Knop 41064 and PM415)		04/06/94	Hiatt

GEO-MARINE INC.
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

Installation: Kansas Army Ammunition Plant

Roll Number: 5

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
1	2106	Water Treatment Plant: Second angle of Raw Water Pump and Motor (Knop 41064 & PM415), south side of 2106		04/06/94	Hiatt
2	2106	Water Treatment Plant: Settling basin		04/06/94	Hiatt
3	2106	Water Treatment Plant: Sand filter		04/06/94	Hiatt
4	2106	Water Treatment Plant: Sand filter		04/06/94	Hiatt
5	2106	Water Treatment Plant, north front and west side	SE	04/06/94	Hiatt
6	2106	Water Treatment Plant, north front and west side	SE	04/06/94	Hiatt
7	2203	Sewage Sprinkler filters, southwest of Sewage Treatment Plant		04/06/94	Hiatt
8	2203	Sewage Sprinkler filters, southwest of Sewage Treatment Plant		04/06/94	Hiatt
9	2203 & 2211	Digester Tank (#2211-left) and Sewage Treatment Plant (#2203-right), west front and south side	NE	04/06/94	Hiatt
10	2203 & 2211	Digester Tank (#2211-left) and Sewage Treatment Plant (#2203-right), west front and south side	NE	04/06/94	Hiatt
11	2203	Sewage Settling basins, west side of Sewage Treatment Plant		04/06/94	Hiatt
12	2203	Sewage Drying Beds, east side of Sewage Treatment Plant		04/06/94	Hiatt
13	1202	Change House, west front and south side	NE	04/06/94	Hiatt
14	1202	Change House, west front and south side	NE	04/06/94	Hiatt
15	1206	Neutral Liquor Storage, north front and west side	SE	04/06/94	Hiatt
16	1206	Second angle, Neutral Liquor Storage		04/06/94	Hiatt
17	1205	Coal Boiler House on 1200 line serving as the Ammonia Nitrate Plant Modifier, south front and east side	NW	04/06/94	Hiatt
18	60	Railroad Scale House: Rutland Vermont Howe Scale (Knop #46809)		04/06/94	Hiatt
19	60	Railroad Scale House: second angle, Rutland Vermont Howe Scale (Knop #46809)		04/06/94	Hiatt

GEO-MARINE INC.
PHOTOGRAPHIC DATA SHEET

Project #: 1114-014 AMC Task C

Film: Kodak TMAX black and white

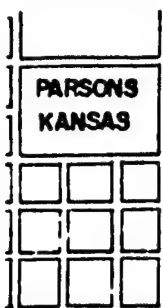
Installation: Kansas Army Ammunition Plant

Roll Number: 5

Exp. No.	Building No(s).	Description	Dir.	Date	Recorder
20	2105A	Stone Quarry Pump House, south front and west side	NE	04/06/94	Hiatt
21	1826	Finished Ammunition Magazine, south and west sides	NE	04/06/94	Hiatt
22	1147	Cooling Building (may have had a different original function), east front and south side	NW	04/06/94	Hiatt
23	1145	Drilling Building (original function unknown), north side	S	04/06/94	Hiatt
24	1113	Cooling Building, north and west side	SE	04/06/94	Hiatt
25	1113	Cooling Building (note: new siding), north and west side	SE	04/06/94	Hiatt
26	951	X-Ray Building, north and east sides	SW	04/06/94	Hiatt
27	910	Propellant Charge Building recently used as Rework Building, north and east side	SW	04/06/94	Hiatt
28	910	Close up of west end of the Propellant Charge Building, north side	SE	04/06/94	Hiatt
29	932, 933, & 934	Loading docks with conveyor, east side of line	W	04/06/94	Hiatt
30	934	Rail loading dock with semi-truck dock, south and east sides	NW	04/06/94	Hiatt
31	934	Rail loading dock with semi-truck dock, south and east sides	NW	04/06/94	Hiatt
32	Unk #	Water pump house which formerly served buildings in its locale		04/06/94	Hiatt
33	Unk #	Water pump house which formerly served buildings in its locale		04/06/94	Hiatt

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PARSONS
KANSAS



ADMIN
IOC

CEMETERY ↑ ROAD

ROAD A

ROAD 2

MISSOURI

KANSAS

TEXAS

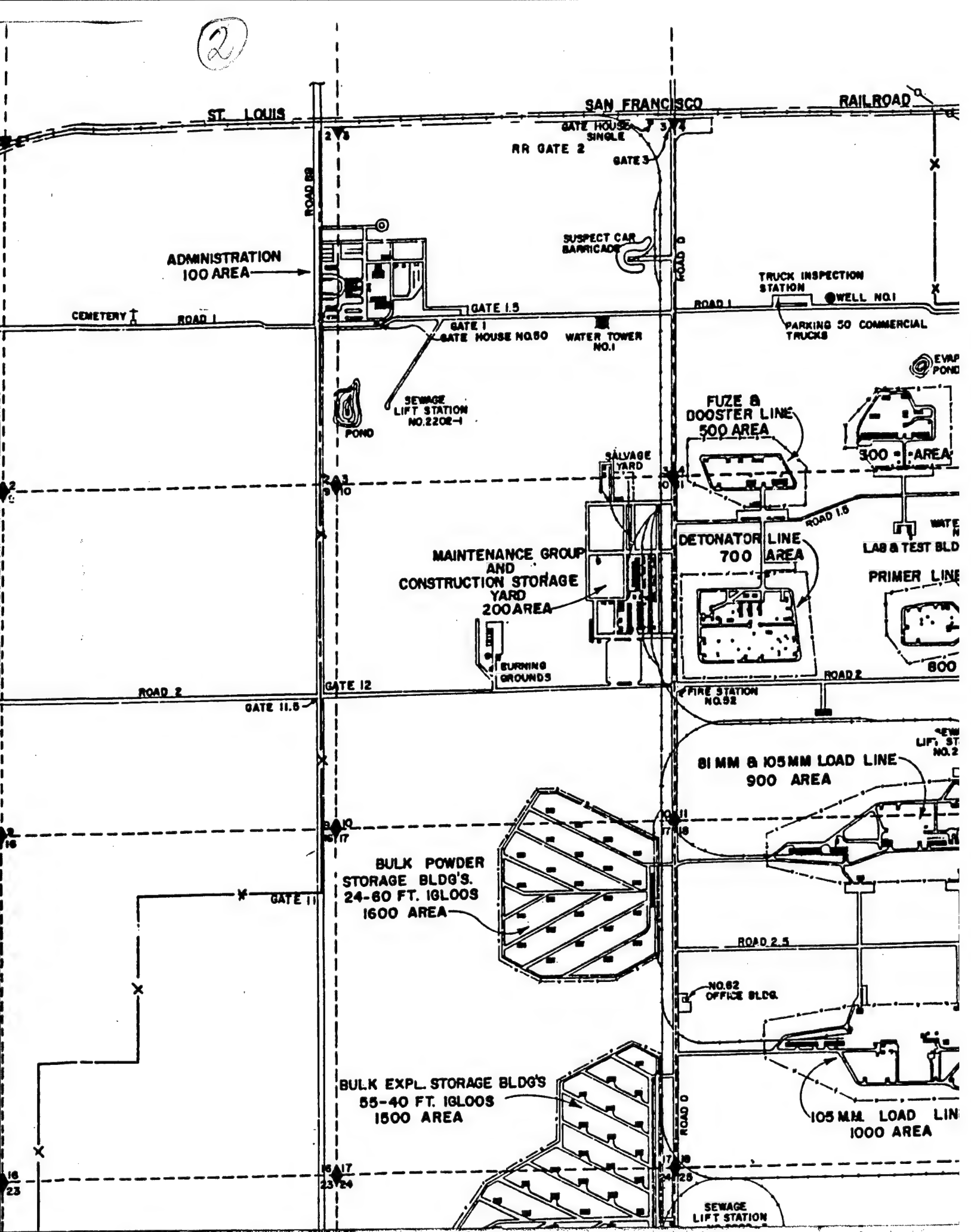
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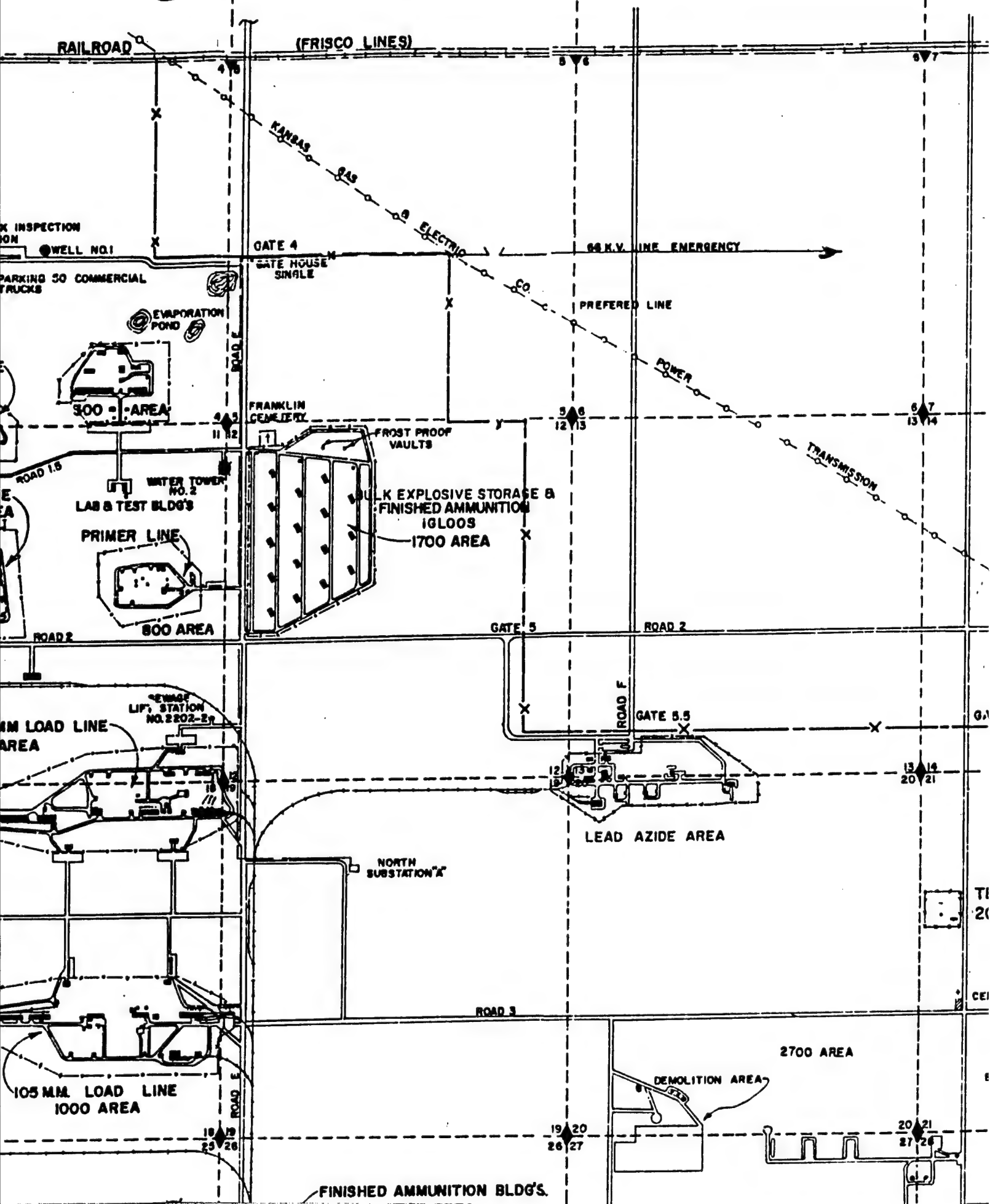
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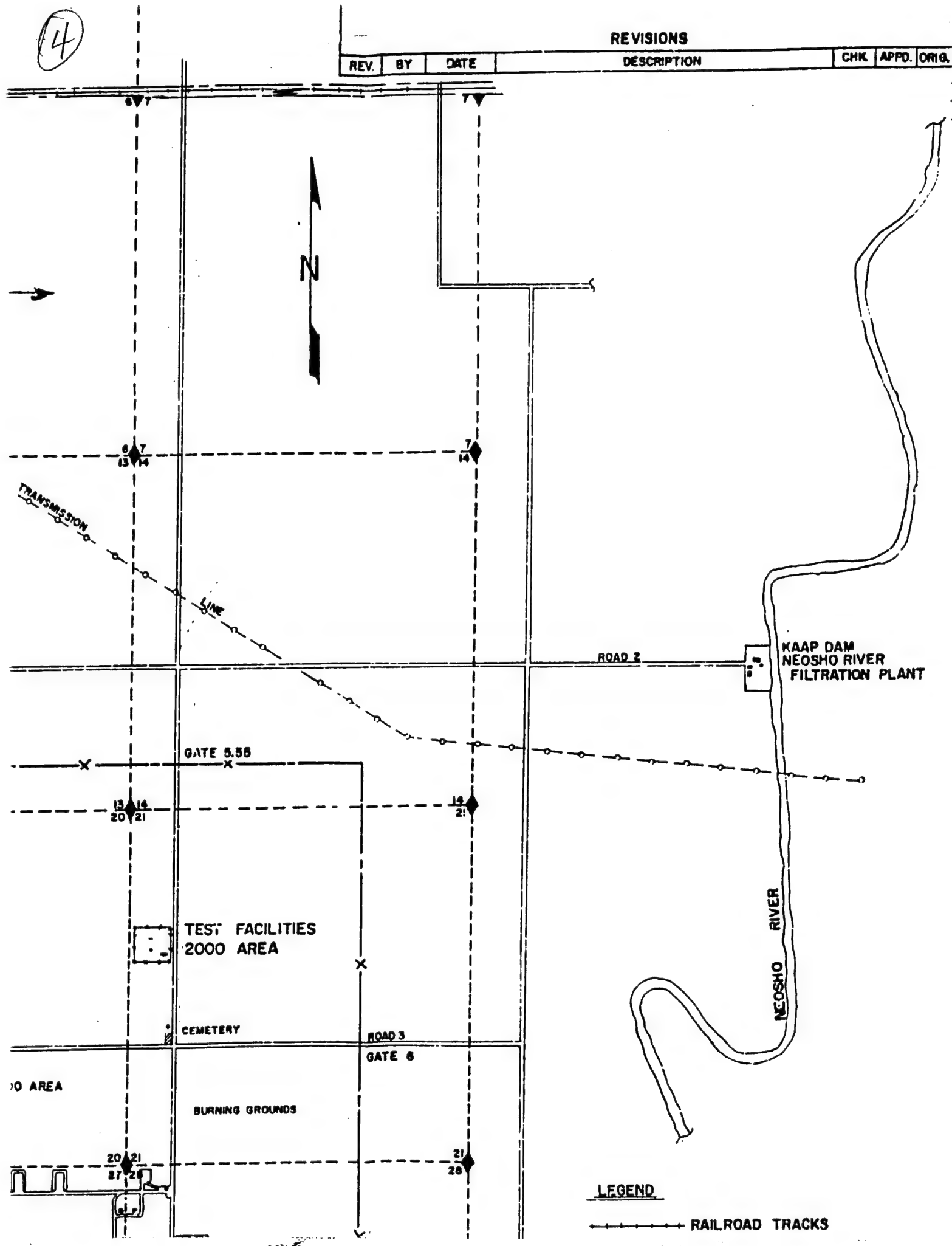


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REVISIONS					CHK	APPD.	ORIG.
REV.	BY	DATE	DESCRIPTION				



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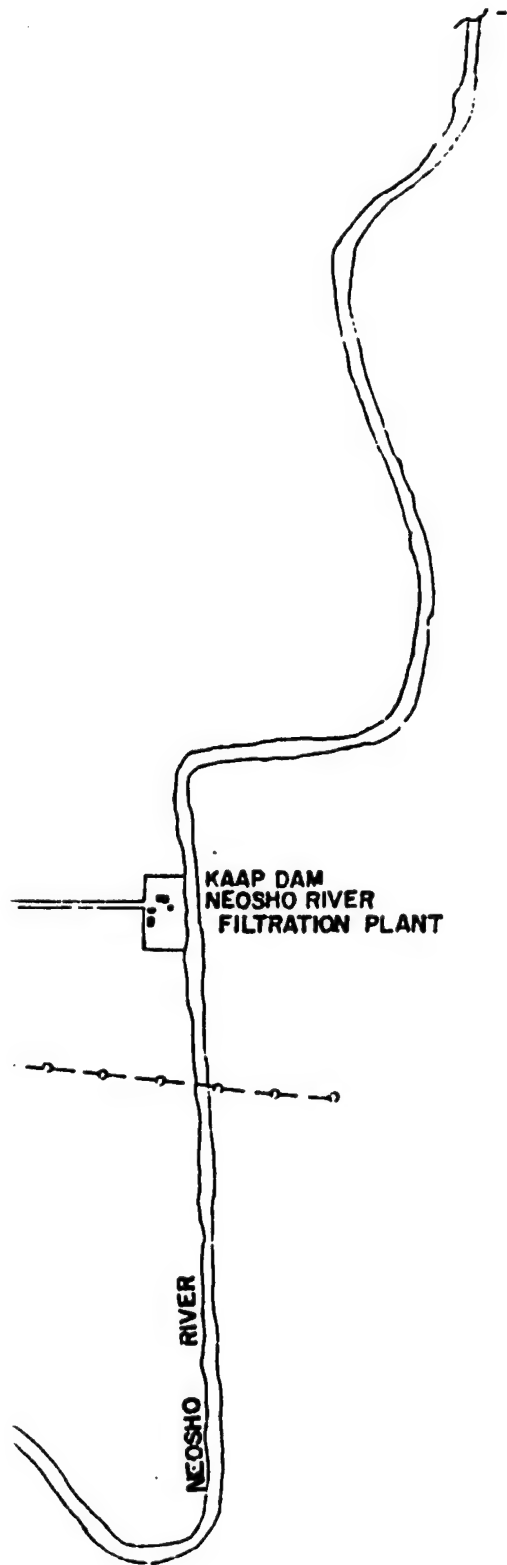
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CHK

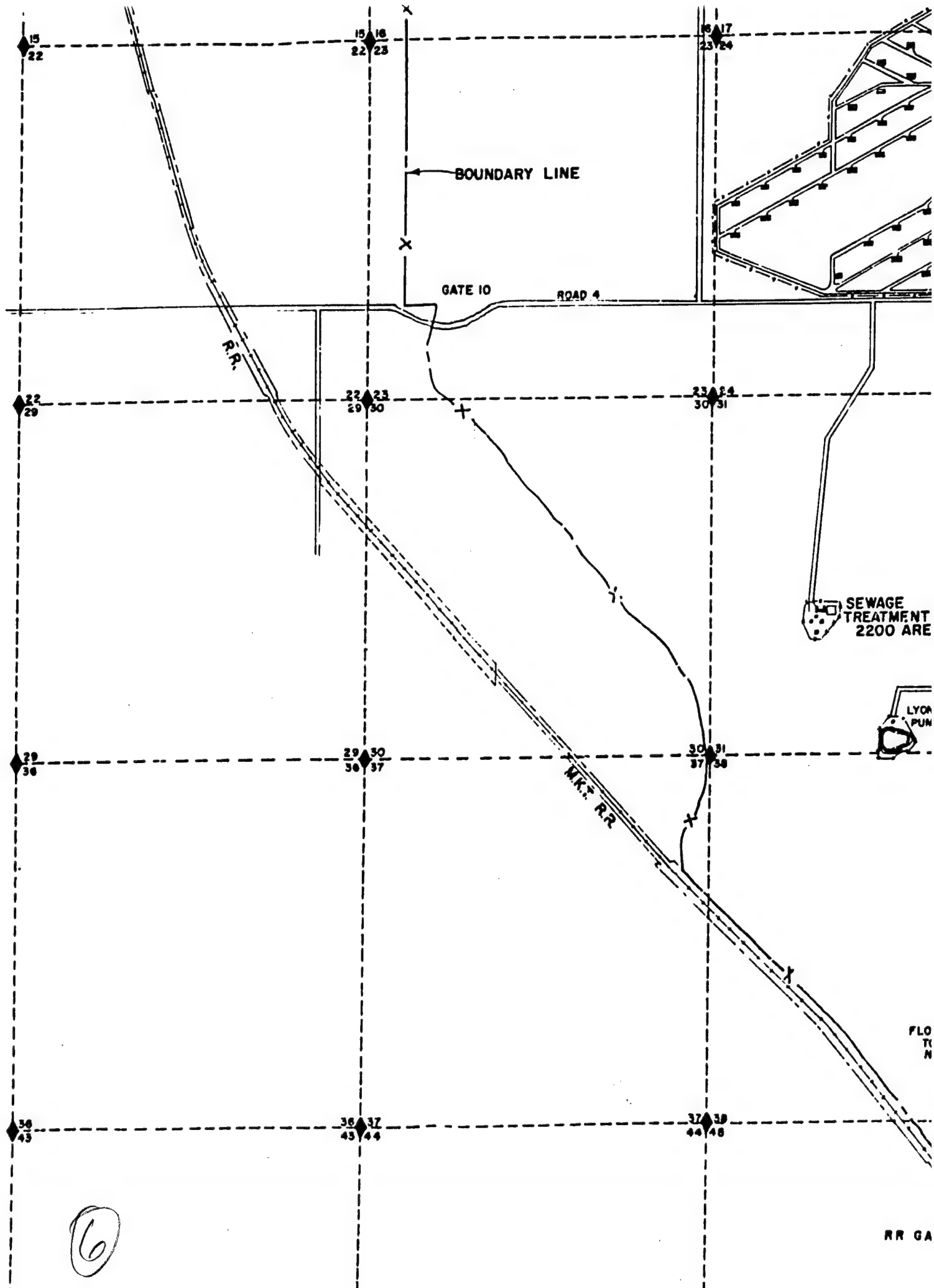
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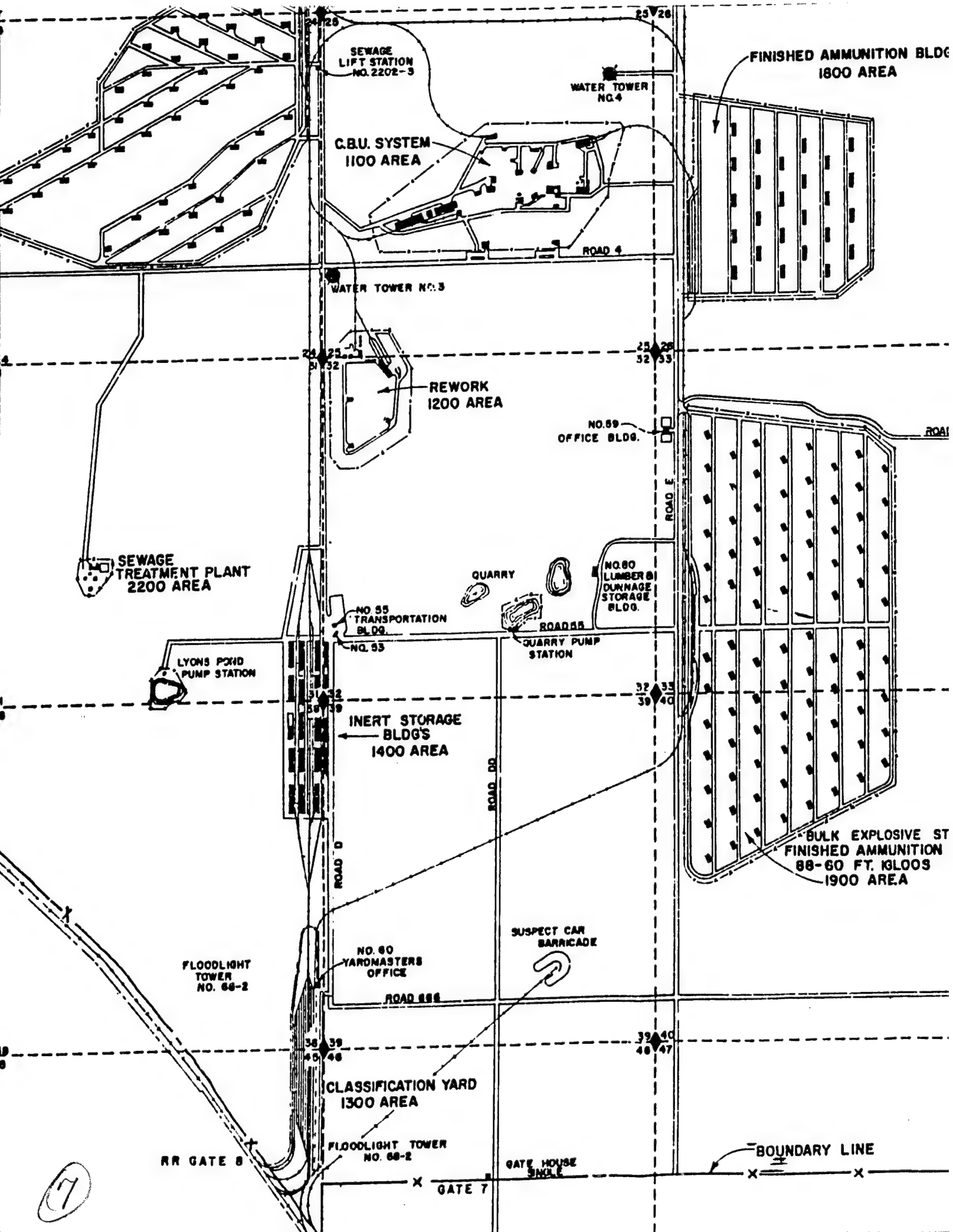
ORIG.

(5)



+ RAILROAD TRACKS





SEWAGE
LIFT STATION
NO. 2202-3

WATER TOWER
NO. 4

FINISHED AMMUNITION BLDG
1800 AREA

C.B.U. SYSTEM
1100 AREA

ROAD 4

WATER TOWER NO. 3

REWORK
1200 AREA

NO. 59
OFFICE BLDG.

ROAD E

SEWAGE
TREATMENT PLANT
2200 AREA

LYONS POND
PUMP STATION

NO. 55
TRANSPORTATION
BLDG.

QUARRY

QUARRY PUMP
STATION

NO. 80
LUMBER &
DUNNAGE
STORAGE
BLDG.

ROAD 55

INERT STORAGE
BLDG'S
1400 AREA

ROAD D

ROAD D

FLOODLIGHT
TOWER
NO. 66-2

NO. 60
YARDMASTERS
OFFICE

ROAD 58

SUSPECT CAR
BARRICADE

CLASSIFICATION YARD
1300 AREA

FLOODLIGHT TOWER
NO. 66-2

RR GATE 8

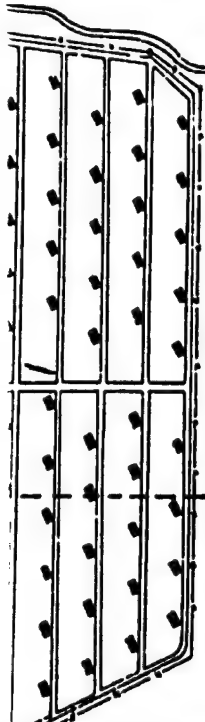
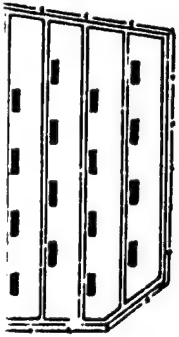
GATE HOUSE
SHED

GATE 7

BOUNDARY LINE

7

ISHED AMMUNITION BLDG'S.
1800 AREA



BULK EXPLOSIVE STORAGE &
FINISHED AMMUNITION BLDG'S.
88-60 FT. GLOOS
1900 AREA

DARY LINE

ROAD 4

MONTANA

ROAD 55

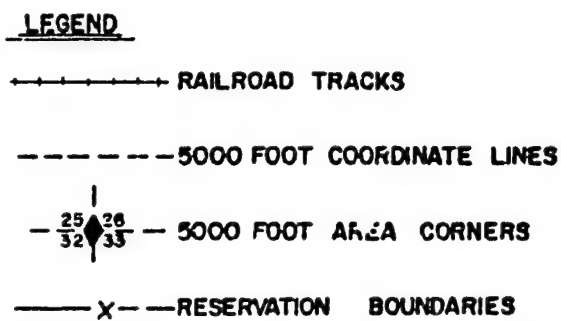
D &

SAFETY

APPR

SAFETY

ENGINEERING



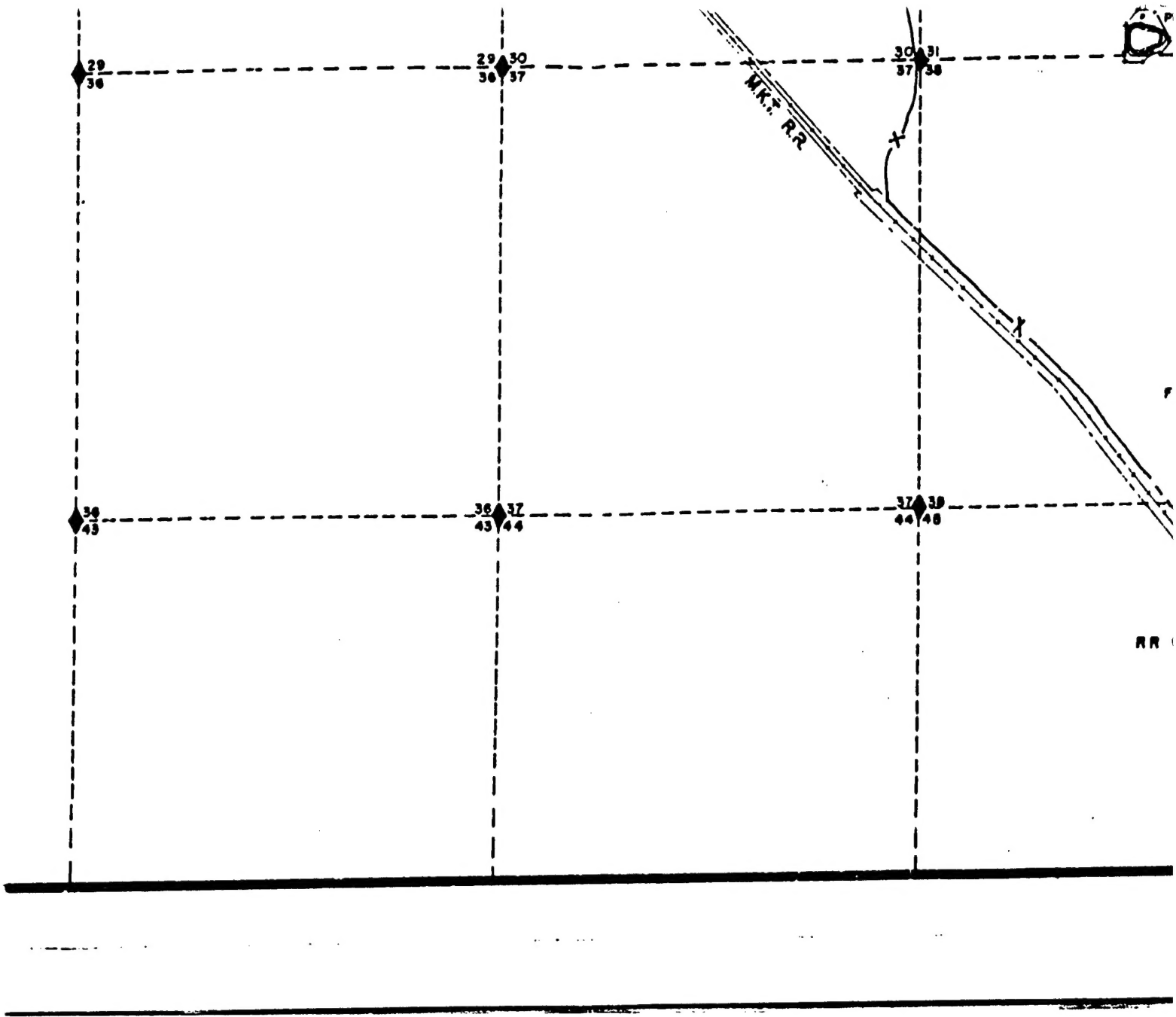
D & Z

KANSAS ARMY AMMUNITION PLANT
PARSONS, KANSAS

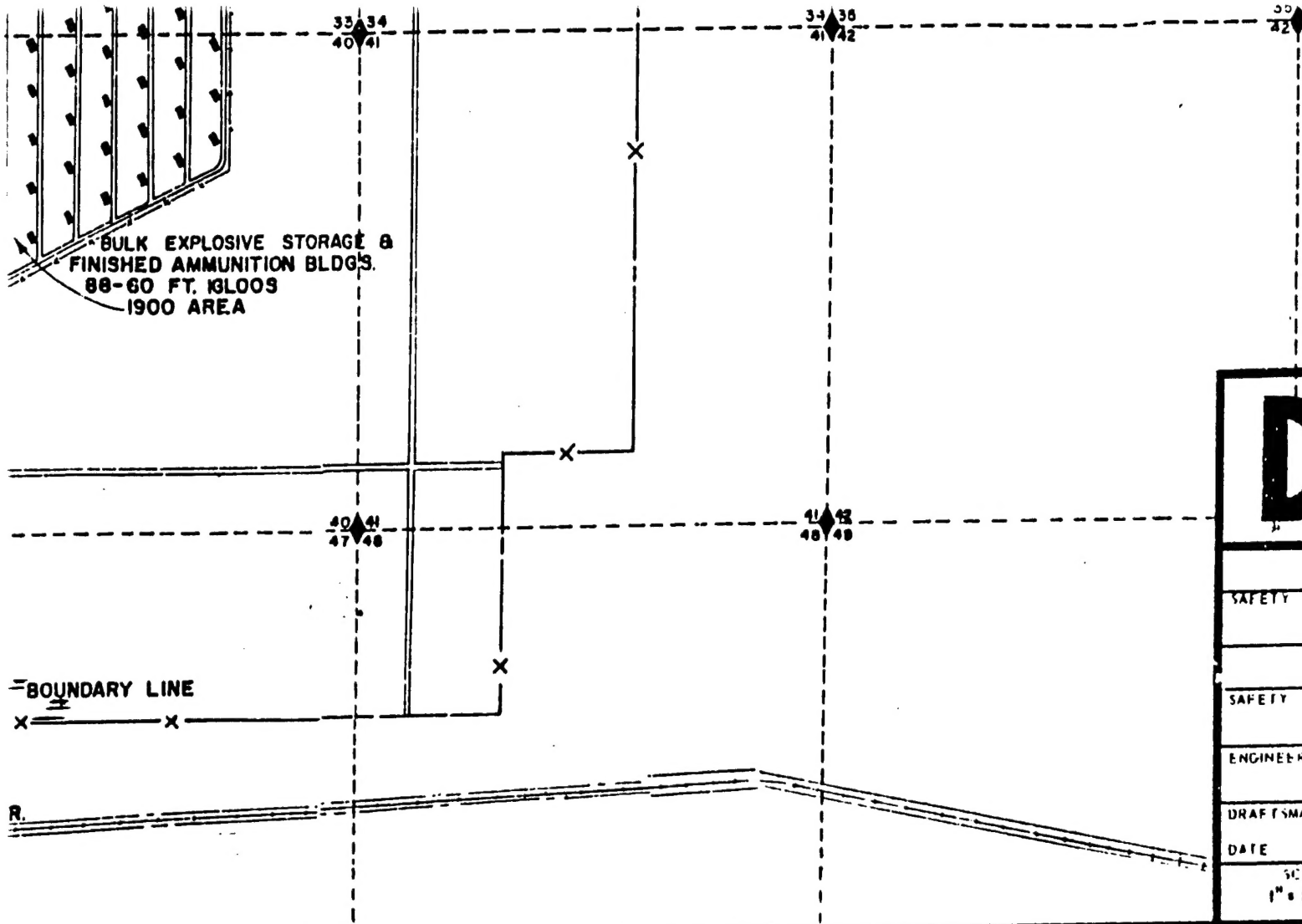
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SAFETY	DATE	COMMANDING OFFICER	DATE
APPROVALS - DAY & ZIMMERMANN, INC.			
SAFETY	DATE	PLANT MANAGER	DATE
ENGINEERING	DATE	PRODUCTION	DATE

TITLE

9



10



D	SAFETY
	SAFETY
	ENGINEER
	DRAFTSMAN
	DATE

12

D&Z**DAY AND ZIMMERMANN, INC.**

KANSAS DIVISION

OPERATOR OF

KANSAS ARMY AMMUNITION PLANT

PARSONS, KANSAS

APPROVALS - U. S. ARMY				TITLE			
SAFETY		DATE	COMMANDING OFFICER			DATE	
APPROVALS - DAY & ZIMMERMANN, INC.							
SAFETY		DATE	PLANT MANAGER			DATE	
ENGINEERING		DATE	PRODUCTION		DATE		
DRAFTSMAN		CHECKER		ENGINEER			
DATE		DATE		DATE			
SCALE 1" = 1320'		CH. DRAFTSMAN		BILL OF MATL.			
		DATE					
AREA GENERAL				BIDG.			
SHEET OF							

13